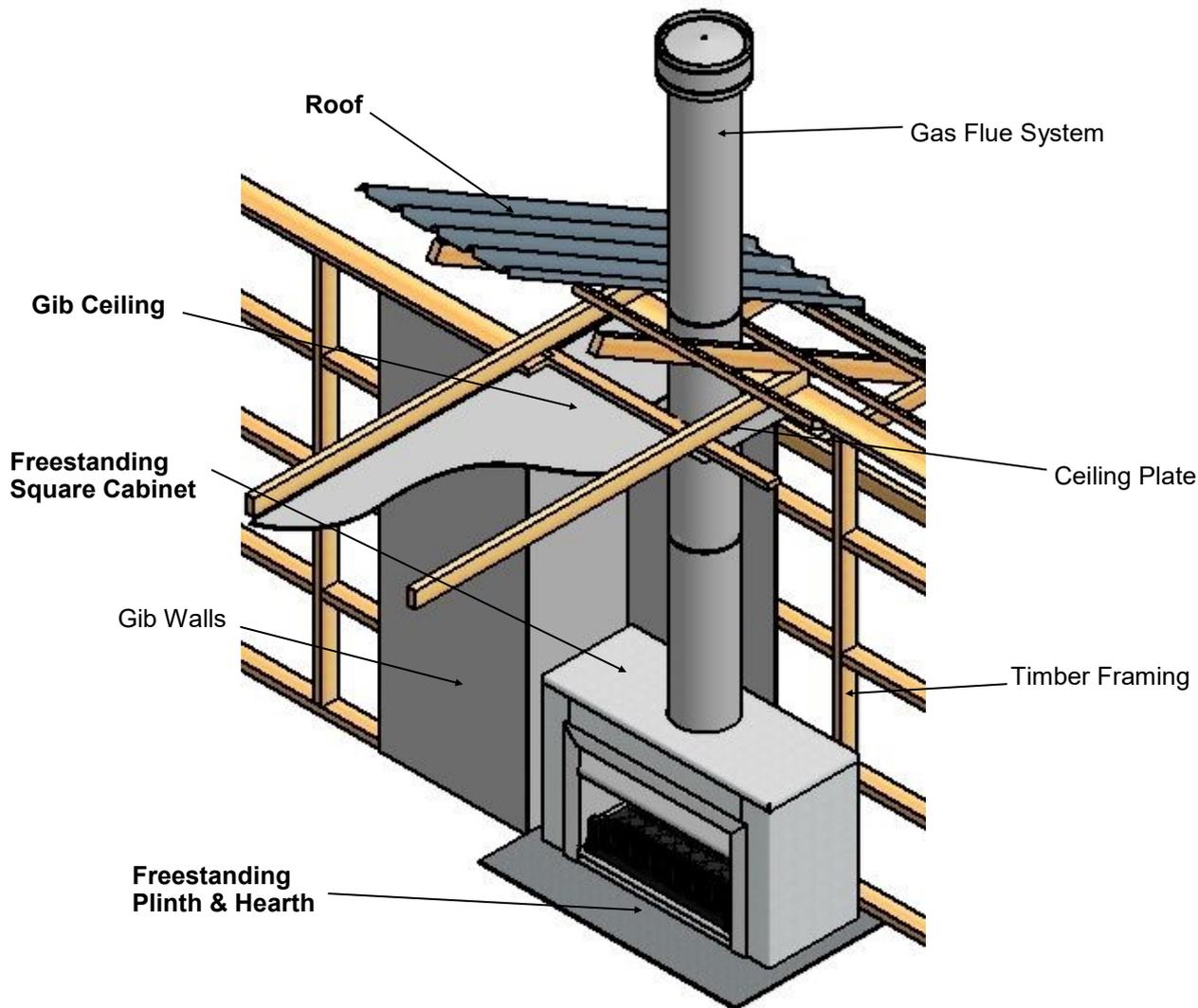


SG & EG 700-780-900-1100-1250 FSS

FREESTANDING SQUARE - Open Gas Fire Installation Instructions



Related documents

Fire and flue system installation, and instructions to comply with NZS 5601.1:2013, 3645.1(Int):2010, 3645.2(Int):2010, 5266:2014, 2918:2001.

The fireplace is constructed and tested to comply with NZS 4558(int):2013 “Decorative gas log and other fuel effect appliances”.

Keep these instructions for further reference. Ensure that you have the correct and current installation details for the Warmington fireplace.

Installation

The Warmington unit is to be installed by a certified Warmington installer or an approved NZHHA installation technician.

See www.homeheat.co.nz/members for a certified NZHHA SFAIT Installer in your area.

A licenced certified gas fitter and licenced electrician are required to run power and gas supplies as required to the unit and any commissioning as part of the installation process. The heater must be installed according to these instructions and in compliance with all relevant building, gas fitting, electrical and other statutory regulations.

IMPORTANT

Read all the instructions carefully before commencing the Installation. Failure to follow these instructions may result in a fire hazard and void the warranty

POINTS TO CONSIDER PRIOR TO INSTALLATION

Location of the Fire. Open Fires are better located at one end of a room or area, as they project the heat away from their opening .

Venting to the Cavity.

This air is to allow the Cavity to Vent the Warm Air. This Warm Air helps keep the Fire and Flue System from getting to Cold . If the Flue and Fire get to Cold the System may soot often and require cleaning. Each Fire has different ways of venting the cavity .

The Topography of the Land .

The slope and position of the Land in relation to the Home has a bearing on how the wind will interact with the Fire and Flue System. Care needs to be taken to ensure that the Flue Termination is in the correct position to maximise performance .

The Prevailing Wind.

Care needs to be taken to ensure that the Flue Termination is in the correct position as wind and gusts that hits the Flue and Cowl System may overcome the Cowl and draft back down the Flue into the Home. This can be a combination of down draft and high pressure.

Hearth and Plinth:

The height of the Hearth off the Floor. The Finishing that is to be used on the hearth is to be allowed for at the design stage.

Positioning of the Flue System:

There is a maximum distance that an Offset Flue can be Installed. Reference to relevant standards.

Flue and Fire Clearance:

To be maintained to the Manufactures Instructions.

Pressure Differential, Venting & External Air into the Building :

All fires need air to burn and draw correctly, Kitchen Fans, Air Conditioning units, High Wind Zones, Naturally forming Draft spaces, can all have an effect on the pressure difference from inside the building to the outside. A lower pressure in the building may induce a draft down the flue system and back into the building causing the fire to smoke or spill into the building. **Care needs to be taken at the design and installation stage to adequately vent the building, or some mechanical system to ensure that there is always a neutral or positive pressure at the fireplace and a negative pressure at the flue outlet.** This will ensure that the draft in the flue system is always to the outside.

“CAITEC AIR” the limits and requirements. See details in these Spec’s, on www.warmington.co.nz or contact your local Agent.

Wind Noise:

You may encounter wind noise in some installations. It is recommended to use an enclosed chase with a chimney pot to help reduce noise. There will always be some noise from the flue systems of all fireplaces.

INSTALLATION ORDER OF OPERATIONS

Prior to Construction and Installation - Important Notes:

1. **Consult a licenced certified gasfitter for correct gas installation.**
2. Install to current standards.
3. Install to manufacture’s specifications.
4. All New Installations require a permit.
5. Allow for gas supply to heat cell at R.H. rear, and power supply to L.H. rear if required (check product).
6. For special requirements concerning materials (Timber Mantle and Surrounds) within close proximity of Warmington products, please contact your local Warmington Technical Consultant .

Stage 1: Frame Construction procedure by Builder.

1. Mark out Flue Centre.
2. Mark out Heat Cell Clearance requirements.
3. Mark out Flue Centre on ceiling for the Installation of the Freestanding Flue System.
4. Construct Plinth only, to required height. *

Stage 2: Install Procedure by Certified Installer only.

1. Fit Freestanding Fire to Plinth.(Ensure Gas Supply Line is fed through R.H. Side of Firebox.) Check Product for location .
2. Fit Freestanding Flue System.
3. Fit Gas Cowl and Flashing System.
4. Fit Weir Vents/Vents (if required), to cool the Chimney Chase Cavity and ensure efficiency of CAITEC Technology. (see Product & Spec)
5. Clean and touch paint up on the fires and cover if necessary.

Stage 3: Finishing procedure by Builder.

1. Construct Hearth to required thickness. *
2. Close in Chimney Chase.
3. Finish Heat Cell Alcove and Hearth to customer’s requirements (e.g. paint / tiles).
4. * **Note: Certified Installer can Install Hearth and Plinth.**

Maintenance:

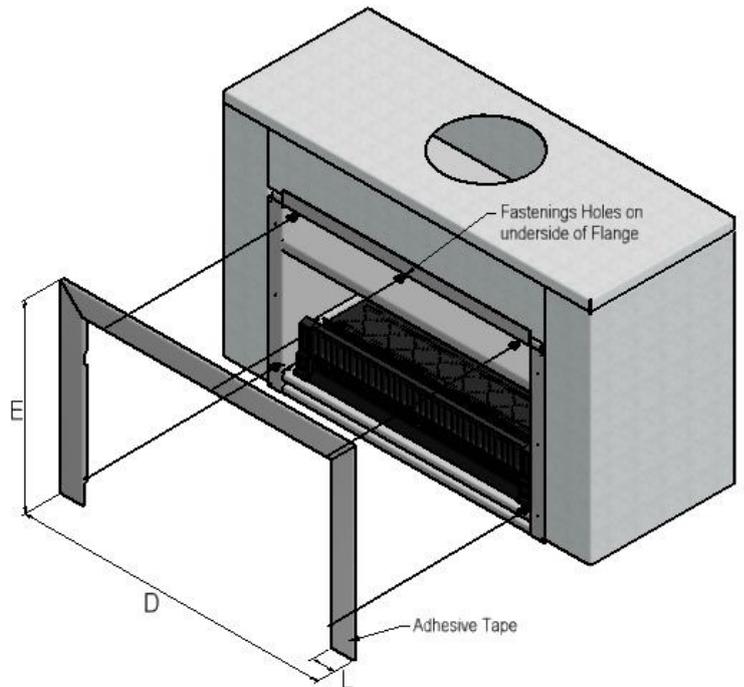
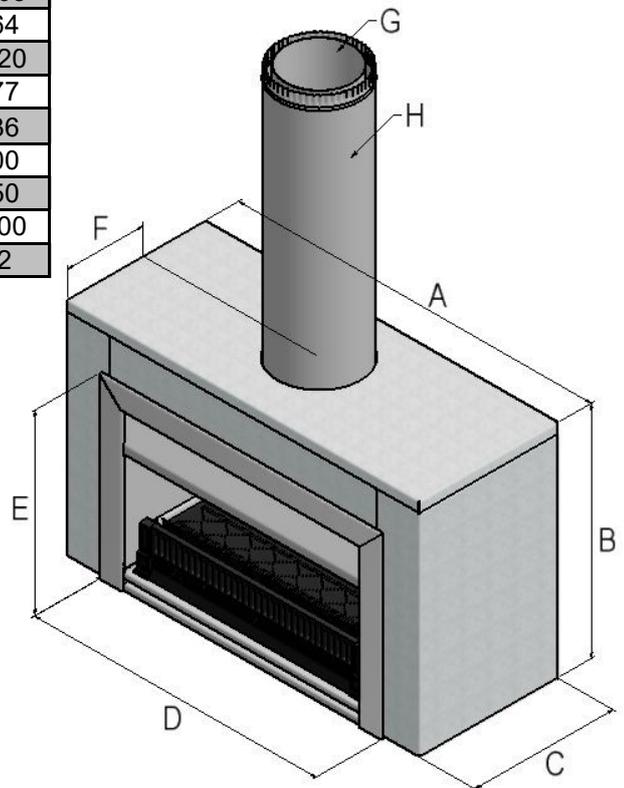
1. Visually Inspect Fireplace and Flue System.
2. Ensure that Fire is operated according to the Manufacture’s Instructions.

WARMINGTON FREESTANDING FIREBOX DIMENSION

Freestanding Firebox		SG/EG 700	SG/EG 780	SG/EG 900	SG/EG 1100	SG/EG 1250
Cabinet Width	A	1130	1210	1330	1530	1680
Cabinet Height	B	855	855	855	855	1205
Cabinet Depth	C	525	525	525	525	564
Fascia Width	D	865	940	1065	1260	1420
Fascia Height	E	680	680	680	680	677
Centre of Flue	F	315	315	285	285	336
Flue	G	200	200	250	250	300
Flue Outer Liner	H	250	250	300	300	350
Minimum Ceiling Height	K	1700	1700	1700	1700	1700
Fascia Section Width	L	80	80	80	80	82

Minimum Flue Height	
Flue Height	3600
Measured From top of Firebox	B + 3600

Seismic Restraint
Secure Firebox through anchor positions provided (through base of fire).



GAS SPECIFICATIONS Tested to current gas standards

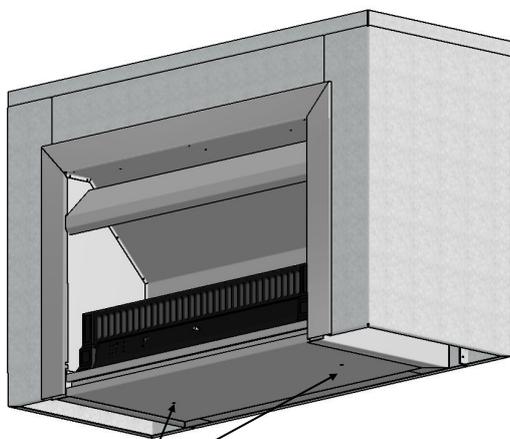
NOTE : All Test Pressures are tested by a Independent Test Lab

*** Inlet Pressure not to exceed 4.0KPa**

MODEL	SG-EG 700	SG-EG 780	SG-EG 900	SG-EG 1100	SG-EG 1250
LPG					
Nominal Pressure kPa	2.75 kPa	2.75 kPa	2.75 kPa	2.75 kPa	2.75 kPa
Nominal Injector Size mm	2 X 1.1mm	2 X 1.2mm	2 X 1.3mm	2 X 1.4mm	4 X 1.1mm
Burner Pressure High kPa	2.5	2.5	2.5	2.5	2.5
Burner Pressure Low kPa	0.75	0.75	0.75	0.75	0.75
MJ/h	29	38	42	50	60
Flame Effect Output Only	Effect	Effect	Effect	Effect	Effect
Supply Pipe Size dia—min	3/8"	3/8"	1/2"	1/2"	1/2"
Natural Gas					
Nominal Pressure kPa	1.5 kPa	1.5 kPa	1.5 kPa	1.5 kPa	1.5 kPa
Nominal Injector Size mm	2 X 1.8mm	2 X 2mm	2 X 2.2mm	2 X 2.4mm	4 X 1.8mm
Burner Pressure High kPa	1	1	1	1	0.85
Burner Pressure Low kPa	0.3	0.3	0.3	0.3	0.2
MJ/h	35	41	48	60	63
Flame Effect Output Only	Effect	Effect	Effect	Effect	Effect
Supply Pipe Size dia—min	3/8"	1/2"	1/2"	1/2"	1/2"

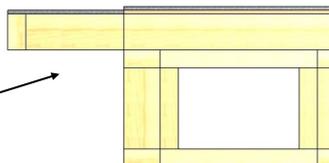
Lab. Test No	GL 923	GL 900	GL 834	GL 876	GL 973
Lab. Test Dates	20/04/2010	26/02/10	26/06/09	24/12/09	30/04/11
ESS Declaration No:	1149420106	1149520106	1149720106	1149820106	1149720106

SEISMIC RESTRAINTS



Seismic Restraint
Secure Firebox through anchor points provided

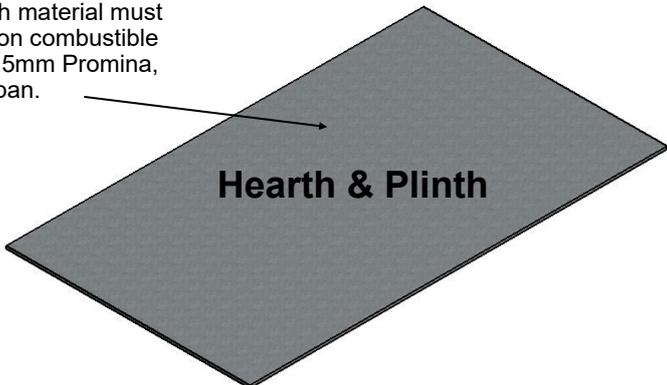
This is a raised & cantilevered hearth. See spec for detail.



HEARTH & PLINTH CONSTRUCTION DETAILS

Note: Hearth and Plinth construction
Plinth to be offset above hearth by the hearth finishing's (e.g. Tiles / Granite / Solid Plaster / etc.)
Raised hearth's & plinth's with cantilevered hearth's must be adequately supported to take the weight in accordance with the NZ Building Code.

Hearth & Plinth material must be built with non combustible material eg. 9.5mm Promina, Superlux, Etpan.

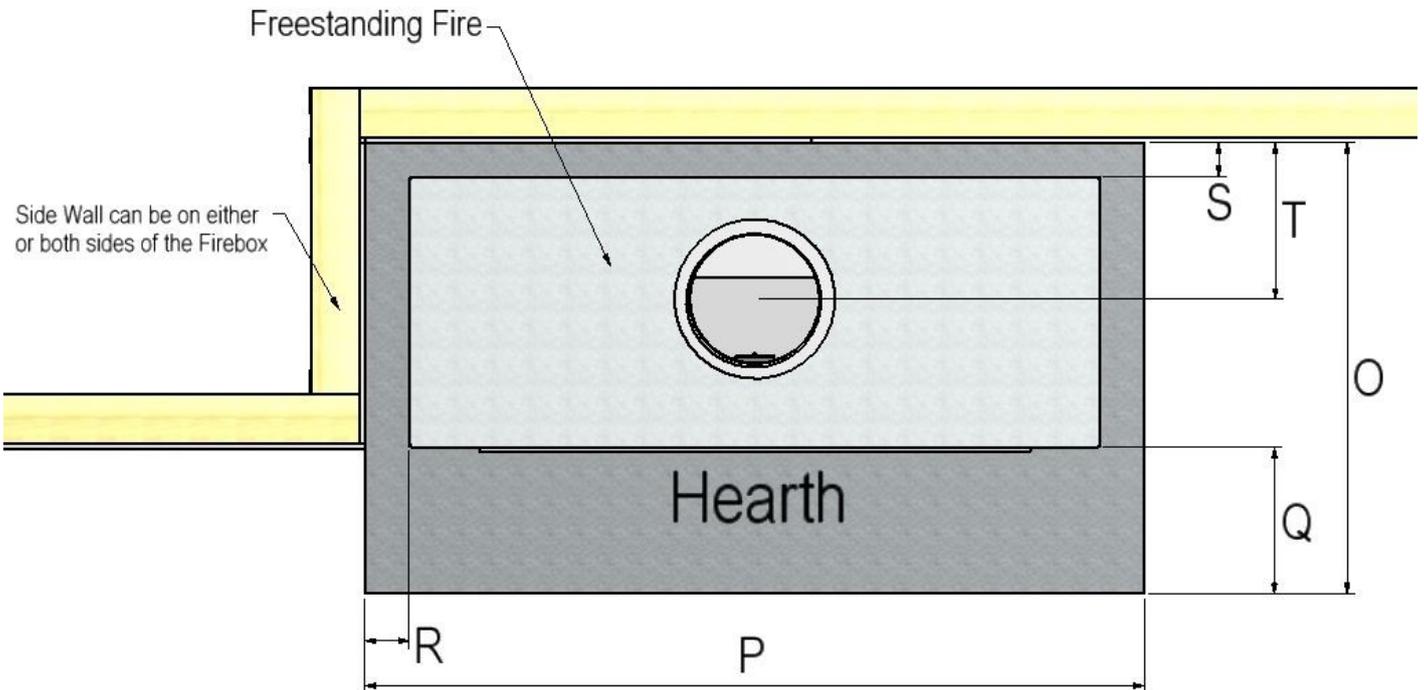


Hearth & Plinth

***Note: If Solid Plastering the Heat Cell Structure, it is recommended to use a Fibreglass Mesh with a Latex Based Plaster to minimise the chance of the Solid Plaster cracking. (See your Solid Plasterer for correct materials and applications).**

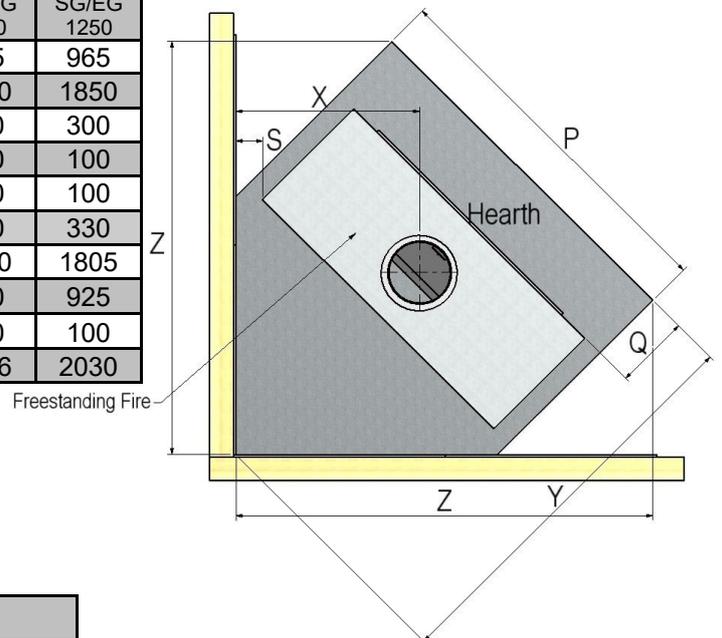
Visit the Warmington Web Site for "Hebel" instruction (PDF Download).. www.warmington.co.nz

PLAN VIEW OF STRAIGHT WALL INSTALL CLEARANCES



PLAN VIEW OF CORNER WALL INSTALL CLEARANCES

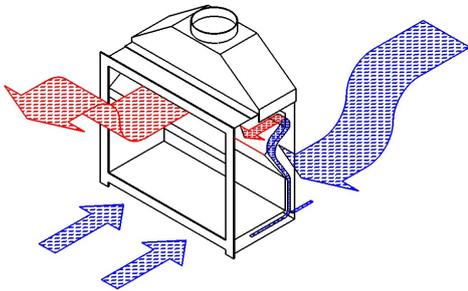
Firebox		SG/EG 700	SG/EG 780	SG/EG 900	SG/EG 1100	SG/EG 1250
Hearth Depth	O	925	925	925	925	965
Hearth Width	P	1300	1380	1500	1700	1850
Hearth Projection	Q	300	300	300	300	300
To Wall Side	R	100	100	100	100	100
To Wall Behind	S	100	100	100	100	100
To Flue Centre	T	340	340	340	340	330
Hearth Depth (Corner)	Y	1550	1590	1650	1750	1805
To Flue Centre (Corner)	X	680	705	750	820	925
To Wall Side (Corner)	S	100	100	100	100	100
Wall to Edge Of Hearth	Z	1553	1609	1694	1836	2030



Note:
 Hearth is to be constructed of non-combustible material
 Plinth under Firebox can be constructed of framing
 Ensure Hearth finishing is completed prior to installation

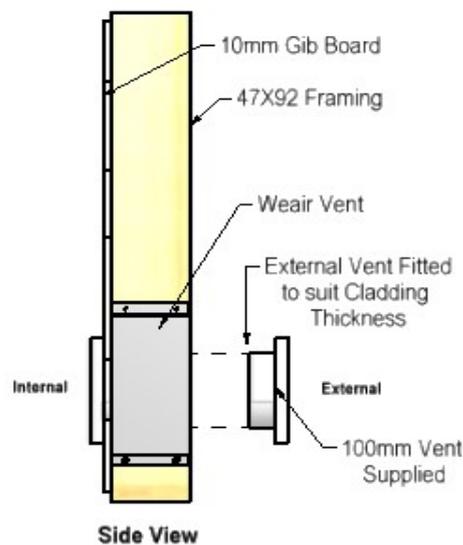
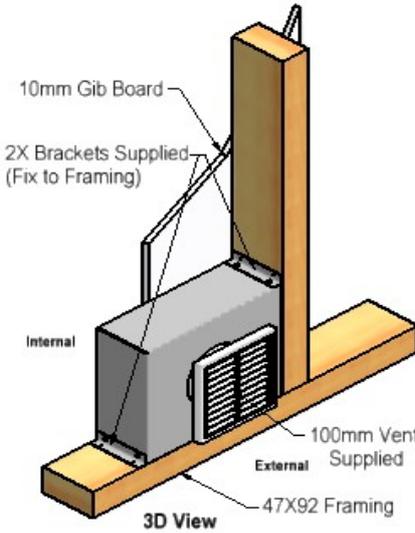
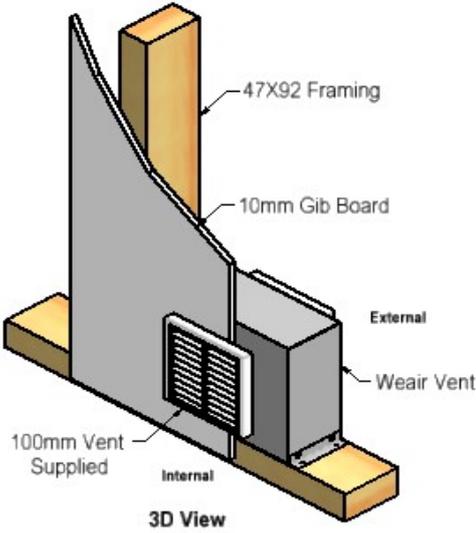
'Caitec' Weir Vent System (concept only)

"CAITEC" TECHNOLOGY—ROOM AIR REPLACEMENT

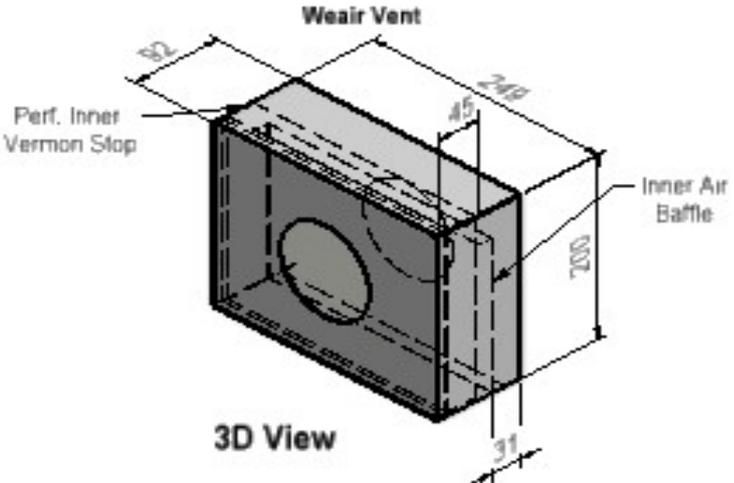
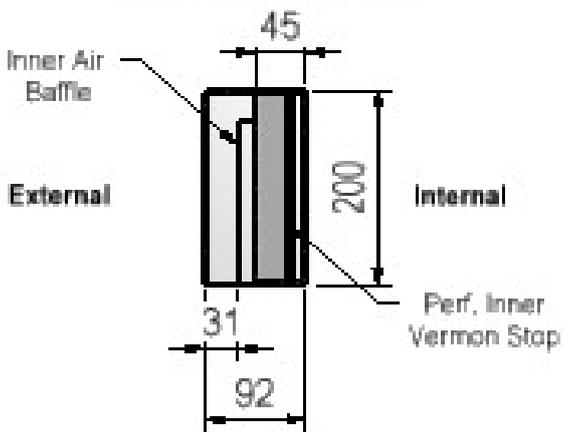


'Caitec' draws air from an external air source to ensure that combustion air that the open fire uses is replaced, maintaining the home at a constant pressure equilibrium, reducing the risk of back drafting. Ensure that the home is vented to outside fresh air. 2 x 100mm dia vents are required (or equivalent to that.)
Builder to install vents to connect with external air for the fire.

Concept drawings only



Side Section View



Important Note:
 For optimum performance place 'Caitec' weir vent system as close to fireplace as possible.

FLUE DETAILS DIMENSIONS

Flue details	No:	SG / EG				
		700	780	900	1100	1250
Cowl	1	200	200	250	250	300
Flue Diameter	3	200	200	250	250	300
Liner Diameter	3	250	250	300	300	350
Spacer	3	200/250	200/250	250/300	250/300	300/350
Bottom Spacer	1	200/250	200/250	250/300	250/300	300/350
Ceiling Plate	1	250	250	300	300	350
Ceramics & Screws		4	4	4	4	4

Minimum Flue Height	
Flue height	3600
Measured from top of adaptor	B + 3600

NOTE:

Ensure that a standard tested Warmington Flue System is used on the Warmington Fires.

FLUE SYSTEM INSTALLATION GUIDE

This is a general installation guide only – Contact a ‘NZHHA Installer’ or Gasfitter for Installation Advice.

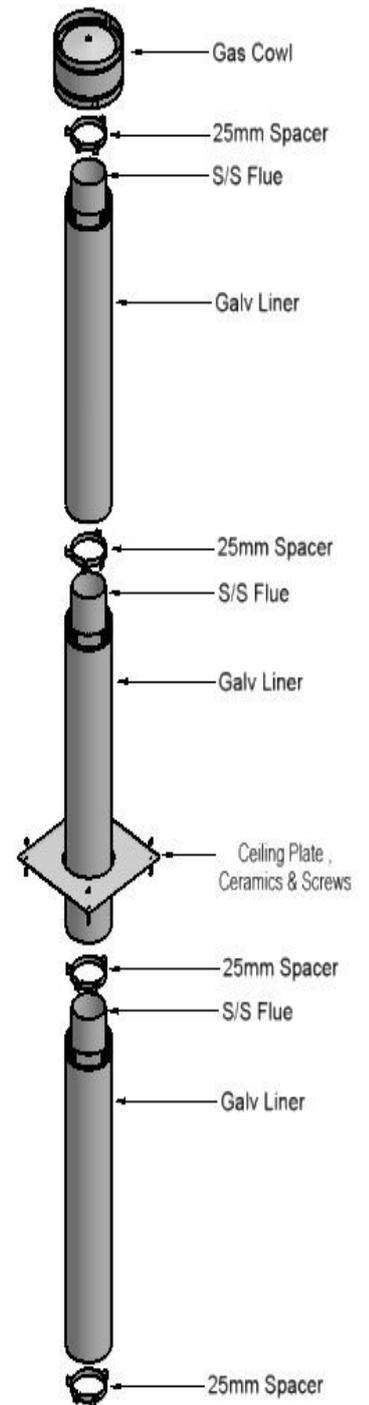
1. Install the first length of flue pipe with the crimped end down, inside the Adaptor collar, ensure that the flue pipe is sealed into the collar with exhaust sealant. Rivet the flue in 3 places around the Adaptor collar. Place a bottom spacer around the flue pipe approximately 150mm above the adaptor collar. Secure in position by tightening the screw and nut.
2. Install the second length of flue pipe with the crimped end down and fit by riveting in at least 3 places around the flue pipe joint. Ensure that the flue is sealed into position with sealant.
3. Install the first section of flue pipe liner with the Crimped end up, over the flue pipe and over the spacer that is fixed to the flue pipe. This spacer will keep the liner concentric about the flue pipe.
4. Position flue spacer at the flue pipe joint for every length of “Flue pipe” and “Liner”.

Repeat the Steps from 1 – 4 to the installed required height of the flue system. The flue system is to comply with the current standards.

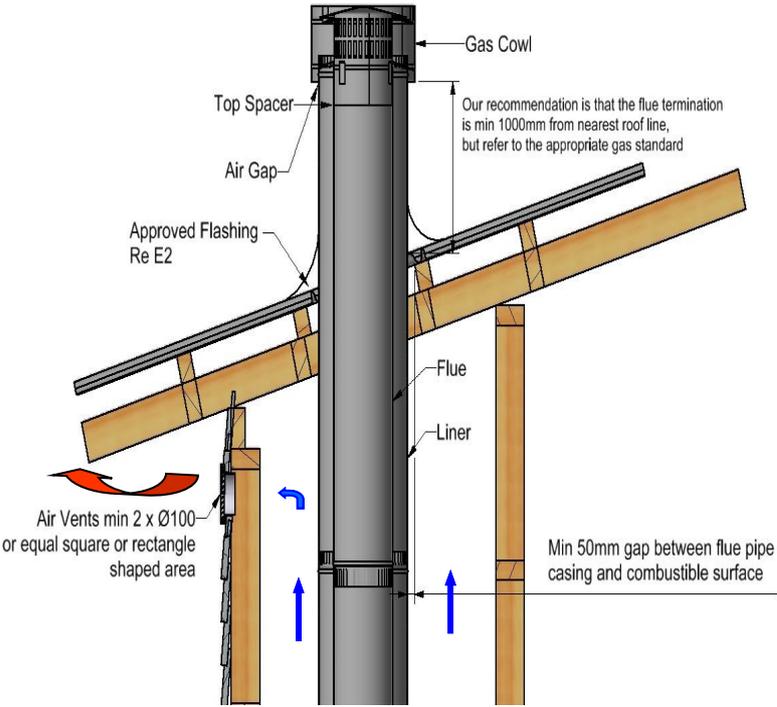
- a “the flue pipe shall extend not less than 4.6m above the top of the floor protector.”
- b “ the minimum height of the flue system within 3 m distance from the highest point of the roof shall be 600mm above that point.”
- c “the minimum height of the flue system further than 3 m from the highest point of the roof shall be 1000mm above the roof penetration.”
- d “no part of any building lies in or above a circular area described by a horizontal radius of 3 m about the flue system exit.”

IF FLASHING CONE IS NEEDED

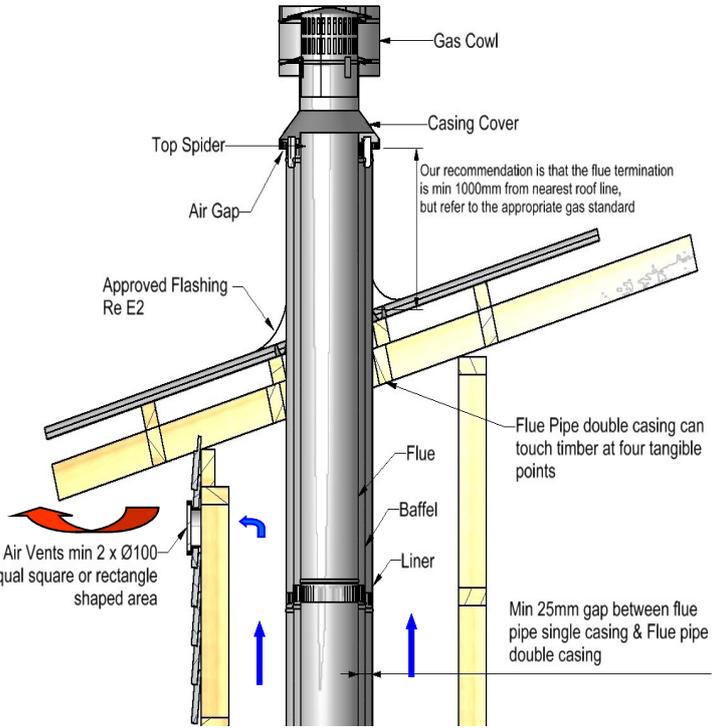
1. **NOTE:** The last length of flue pipe needs to extend past the liner so that when the “top spider” and the “Flashing cone” are fitted, that the “flashing cone” and the “flue pipe” are **flush**, or that the “flue pipe” is **5mm lower** than the “Flashing cone”.
2. Fit the “Top Spider” into position, ensure that the legs of the spider are fitted inside the liner and that the spider is positioned hard down onto the liner and tighten with the screw and nut.
3. Place the “Flashing cone” over the “flue pipe” and press hard down onto the “Top Spider”. (Note that the “Flue pipe” and the “Flashing Cone” are either flush or the “Flue pipe” is 5mm Lower than the “Flashing cone”.) Ensure that the “Flashing cone” is clear for the venting from the “Liner” and the “flue pipe”.
4. Fit the “Cowl” to the top of the flue pipe. The “Cowl”, “Flashing cone”, and the “Flue pipe” can be secured to each other with the uses of a stainless steel self tapping screw. This will allow the “Cowl” to be removed for cleaning.
5. Flue system may require bird proofing due to the installation and locations, discuss this with your installer for the best advice.
6. If the Flue system is installed into a “Chimney Chase”, allow for air vent as close to the top of the chase as practical, or allow venting through the “Chimney Chase Flashing”. A “Venting Flashing cone” and a 25mm gap around the Liner with a “Venting Flashing Cone-Spider” can be used. Ref: to Figures in this specification.



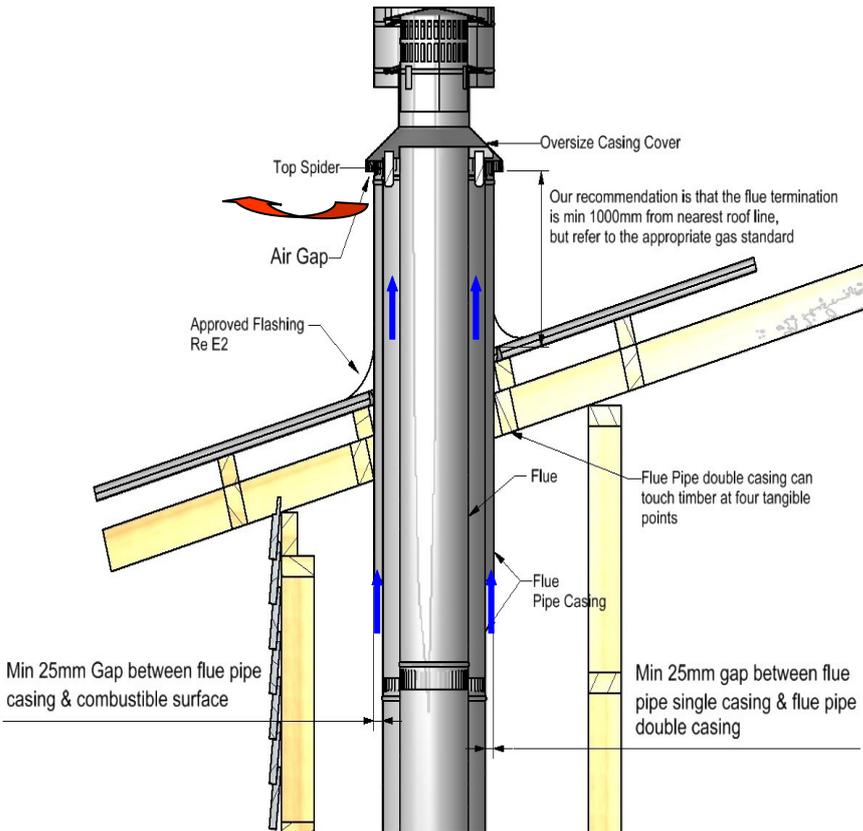
FLUE PENETRATION vented through alcove (single-lined flue system)



FLUE PENETRATION vented through alcove (double-lined flue system)



FLUE PENETRATION Vented through Top Flashing



Note:

External requirements
Refer to relevant standards.

Install flue system to relevant standards.

When using a rubber or bitumen flashing (butynol, bectite) an additional flue pipe baffle is required.

All external air vents & ceiling penetrations must be bird proofed with permanently fixed screens.

All flashing to comply with E2.

All external air vents and ceiling penetrations are to be vermin and rodent proof.

Test Report Number	Date of Report
04/1039	20 th July 2004
04/1040	20 th July 2004
04/1041	20 th July 2004

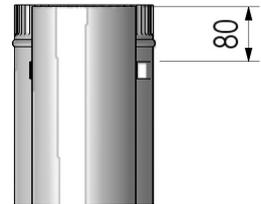
CHIMNEY CHASE FLASHING DETAILS FOR SETTING ADD GAS COWL HEIGHT

General Chimney Chase Flashing Lay Out

Note:
Flashing spigot height is determined by the insulation that is fitted under the flashing, see details at bottom of page.

STEP 1

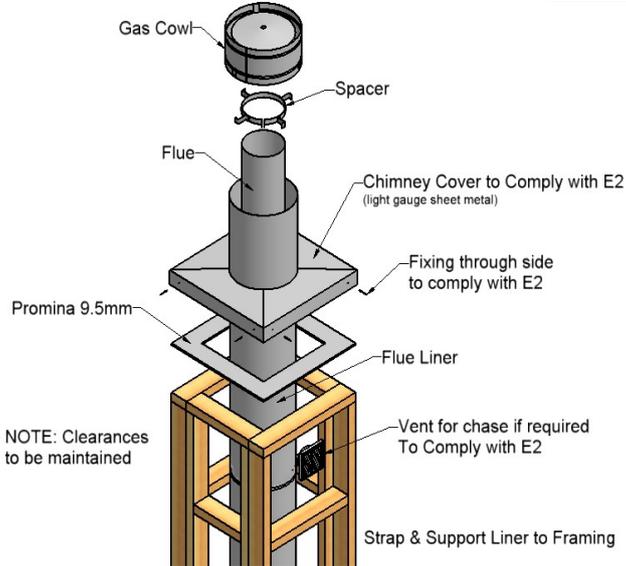
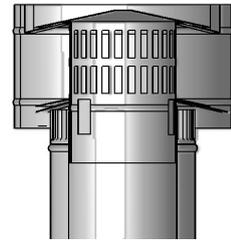
Flues are to be set flush to the same height, Spacer set at approx 80mm low.



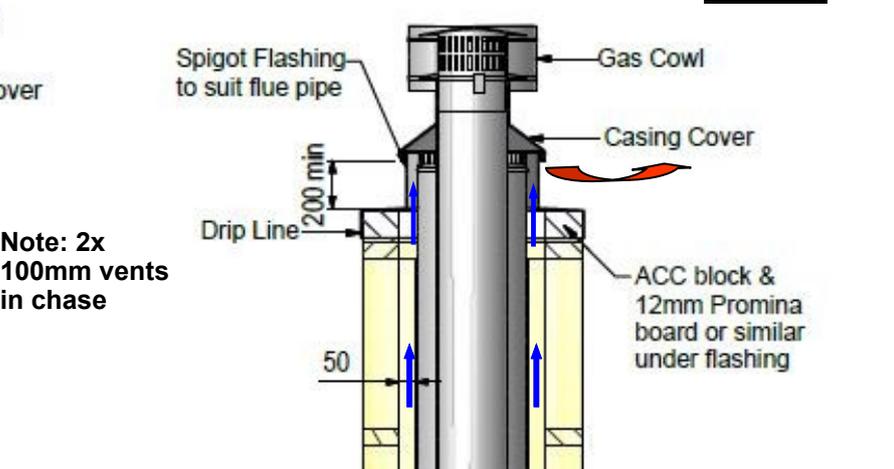
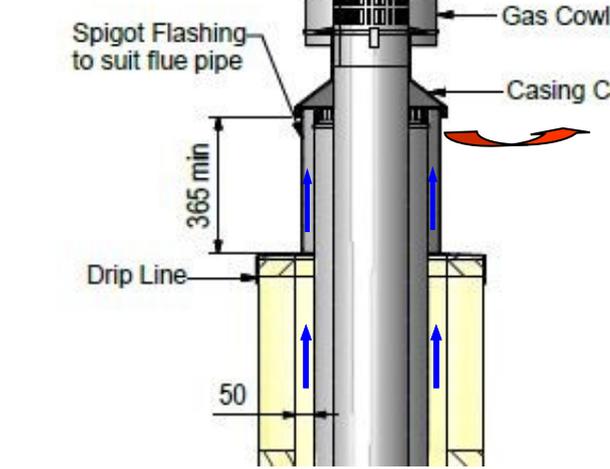
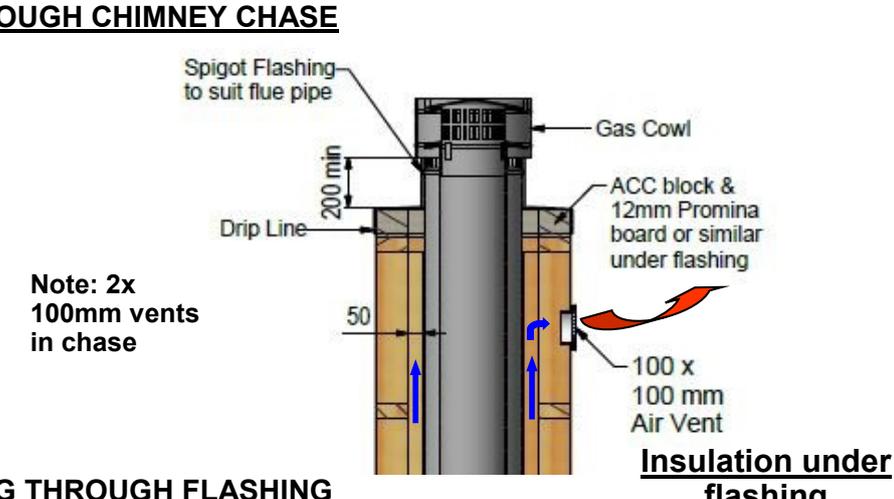
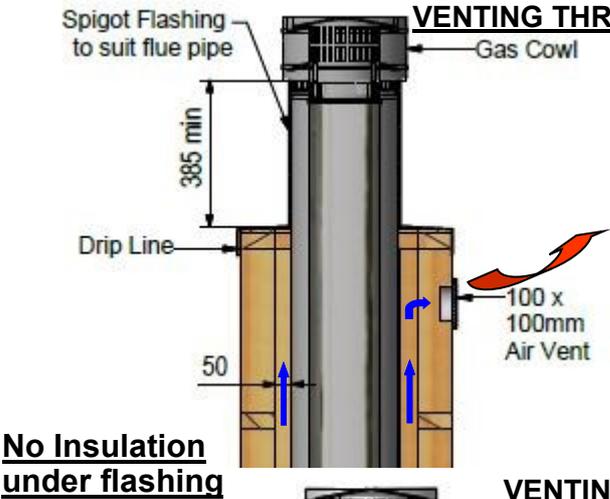
SETTING COWL TO FLUE
ADD Gas Cowl is to be set as shown and is in accordance with Foley's Industries LTD.

STEP 2

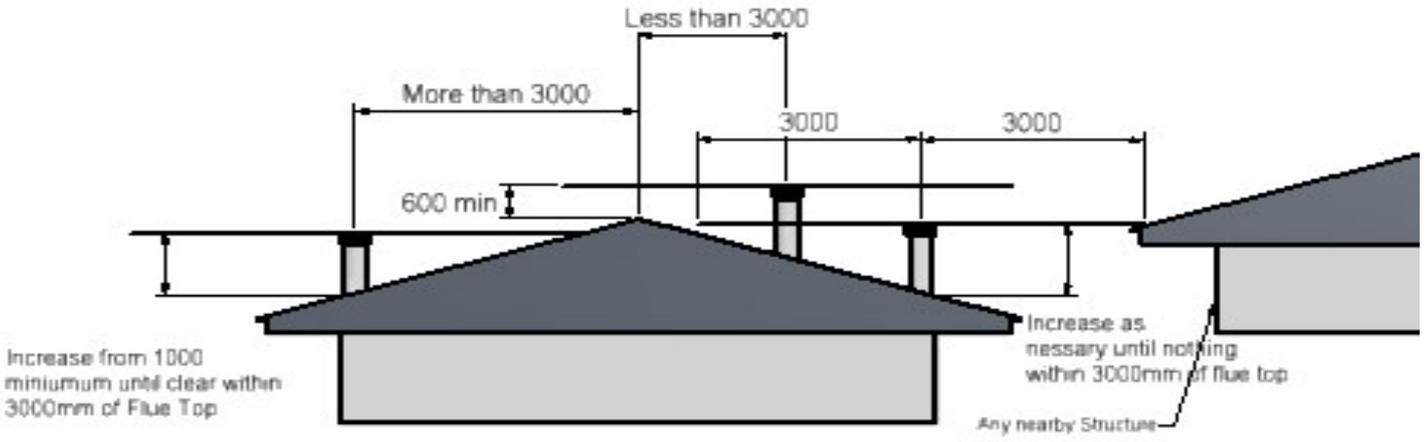
ADD Gas Cowl slides inside the flue, sitting on the swage, leaving a 10mm Air gap from cowl to liner, screw to secure



CHIMNEY CHASE FLASHING AND AIR VENTILATION OPTIONS:

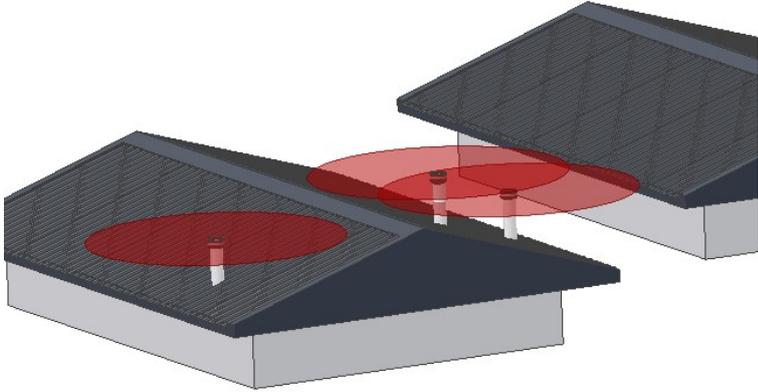


FLUE HEIGHT MINIMUM DETAILS



The flue exit is to comply to relevant standards.

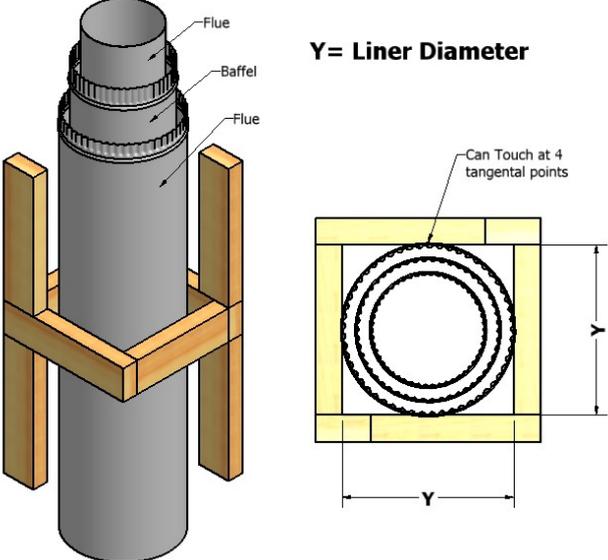
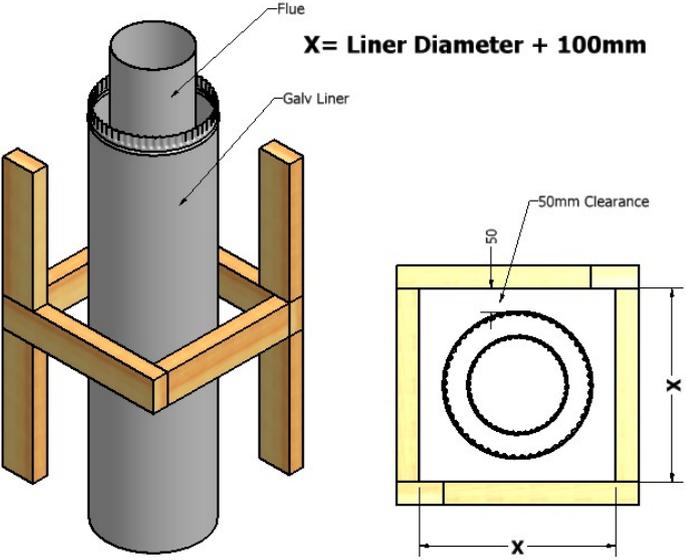
3D View



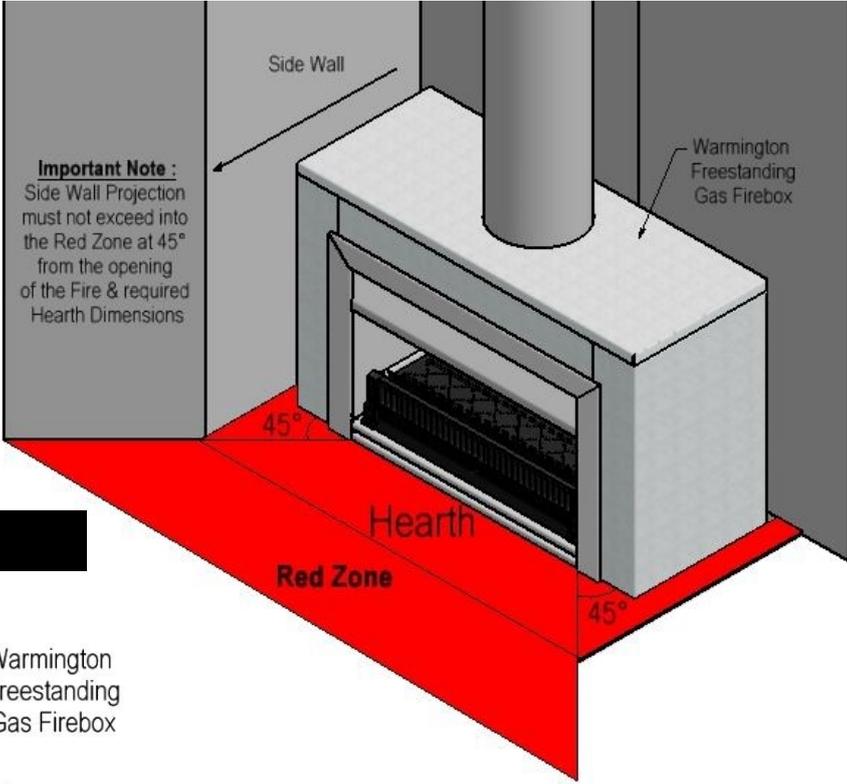
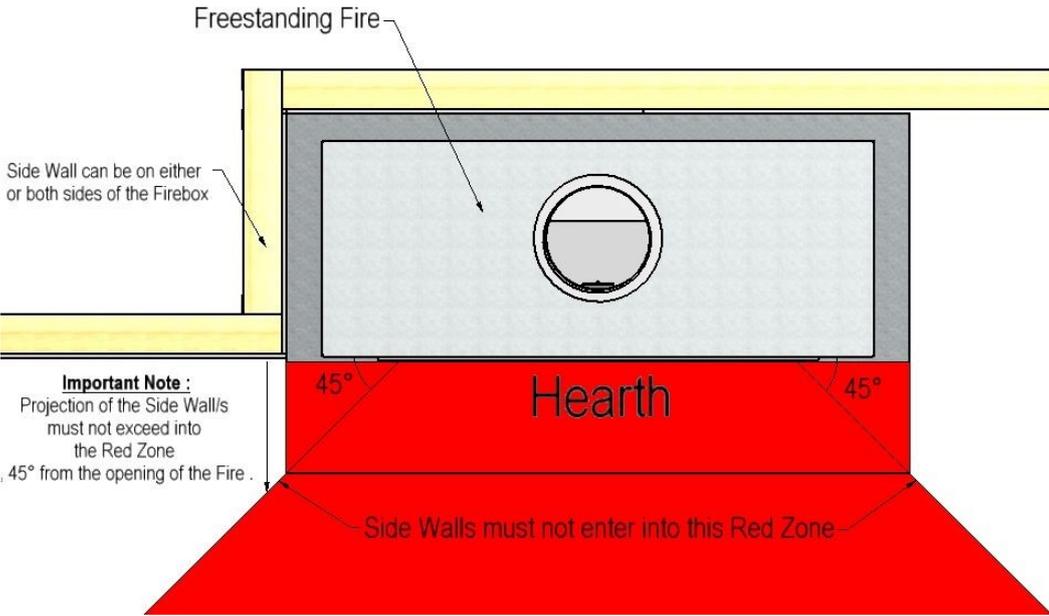
FRAME OUT AND TRIM OUT DETAILS FOR CHIMNEY CHASE

Option X – Single Lined Flue System

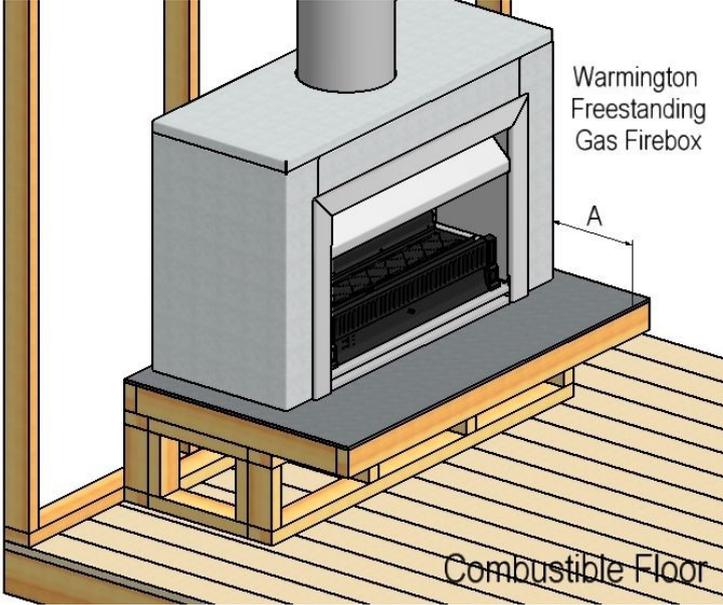
Option Y – Double Lined Flue System



PLAN VIEW OF SIDE WALL PROJECTION INSTALL CLEARANCES



RAISED HEARTH CLEARANCES



Note: For Combustible Floors

Minimum Hearth of 300mm (A) must be maintained at any given height.

SG / EG Range: Gas Convection Fireplaces

TO THE INSTALLER / GAS FITTER and ELECTRICIAN

NOTES:

- Service annually or more if required.
- Custom built to clients requirements to relevant and current standards.
- The appliance and flue system must be installed in accordance with the relevant and current standards and the appropriate building codes.
- The appliance and flue system must be tested in accordance with the relevant and current standards and the appropriate building codes.

FLUED GAS APPLIANCES All Gas Fires requiring Warmington Flue Systems shall be Installed to the requirements of the current standards and shall be appropriately designed and constructed to permit safe and effective use. This Appliance must be flued to the outside atmosphere. All Warmington Fires must be Installed with a **minimum of 3.6m** of Approved **Warmington Gas Flue and Liners**.

GAS TYPE All Gas fires shall operate safely on the Gas Type specified on the Appliance and shall comply with the requirements of The Gas Act 1992.

APPLIANCE SAFETY Any Gas Fire Appliance shall comply with the safety requirements of the current standards listed under 'Related documents' in this specification.

ELECTRICAL REQUIREMENTS All Gas Fire Appliances Installed with Mains Supplied Electrical components for associated use with these Appliances, must comply with The Electricity Regulations 1993.

ELECTRONIC CONTROL SYSTEMS Any Gas Fire Appliance Installed with Manual or Programmable Electronic Control System shall be tested and/or approved by a Recognised Person or Authority.

SEISMIC RESTRAINTS All Fires used for Domestic and Commercial Purposes shall be firmly secured (unless defined as portable or mobile) to prevent dislodgement from their point of fixture or Installation during Seismic Activity. Such Restraint must be of a reasonable expectation.

GAS CONNECTION

A Gas Certificate must be obtained for the Installation and Commissioning of this appliance and flue system
Check that the Gas Type Specified on the Data Plate is correct for the available supply (LPG or NG).

A Copper Gas supply capable of supplying the correct MJ/h, should be brought into the rear of the installation cavity through the hole provided. A flare nut is provided on the burner for gas connection to the appliance.

COMMISSIONING AND TESTING OF FIREPLACE (To be carried out by Gasfitter)

Read all the instructions before commissioning. Install coals and logs and burner before commission.

Light appliance and check HIGH/LOW settings. Check operation of appliance and adjust to suit.

Adjust control valve setting if required. After a period of running (30min Plus) check the setting of the pilot and adjust if required.
See Spec's for details.

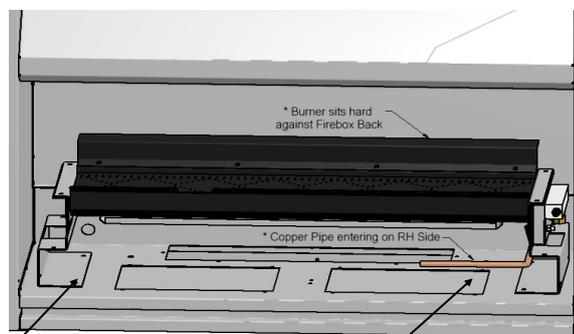
Extinguish appliance, remove test equipment and secure test nipple. Check for gas leaks.

Note: The Control Valves are factory set and should not require adjustment.

GAS FITTER TO CARRY OUT STANDARD TESTING FOR COMMISSION:

- Spill test taken at top of opening with smoke or smoke match.
- Leak testing appliance and joints.
- Correct operation of the burner and coal and log lay out.
- Test gas pressures high and low, drop test on supply line.
- 5 second light time across burner and other testing that may be required.
- Ventilation requirements to the standards.
- Clean and or touch up paint of fire box and burner.
- Hand over to Client, test and comply to relevant standards.

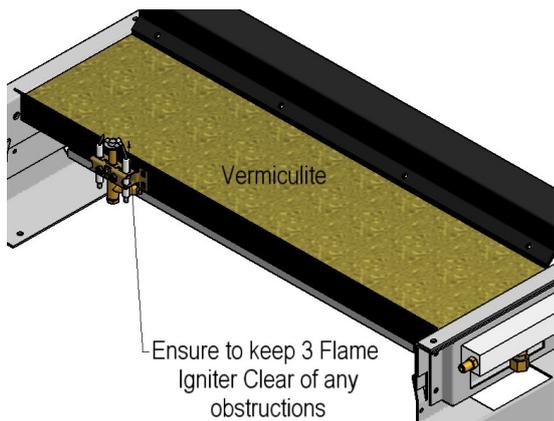
FITMENT OF BURNER



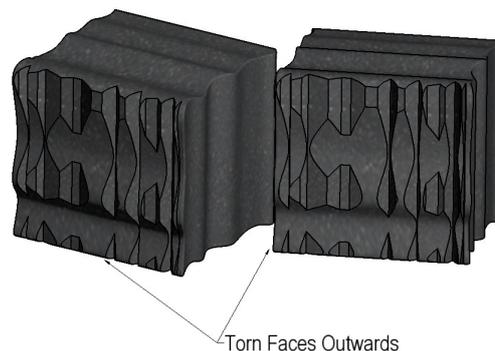
Burner may be Secured To the Firebox (Optional)

Gas Supply Pipe Into Fire , by Gasfitter . See Spec's for Pipe Size.

VERMICULITE (COARSE) (To be set by Gasfitter)



General Coal orientation fro optimum effect.



APPLYING THE VERMICULITE: (Coarse - must be larger than the burner plates holes so not to block them)

Apply with care a thin layer of Vermiculite over the Burner, just enough to cover the Burner Tray only .

NOTE: If the burner flame is uneven, the Vermiculite may need to be changed or sifted to remove the smaller pieces that can block the burners holes. The smaller pieces can ,cause uneven burn and the unit to run dirty.

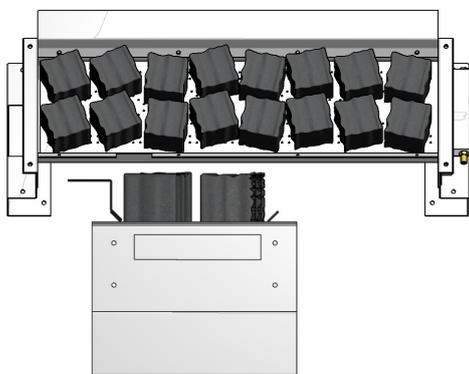
COALS AND LOGS (To be set by Gasfitter)

Gloves should be worn when handling Ceramic Fibre Coals & Logs. The carbon on the coals can stain the surroundings.

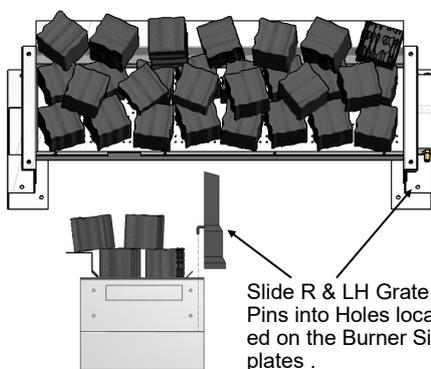
HELPFUL HINT: Use metal tongs when HOT.

Apply a thin layer of Vermiculite over the Burner, just enough to cover the Burner tray only as shown above.

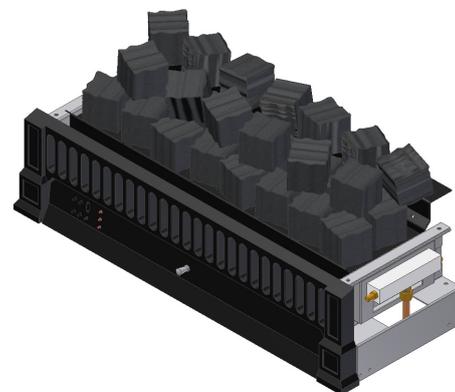
1 : Bottom Row: Assemble 2 bottom rows of coals onto the Vermiculite base. **2 : Top Row:** Assemble 2 top rows of Coals onto the bottom row.



1: Bottom Row



2: Top Row



Model SG780 Shown: Total number of coals will vary per mod-

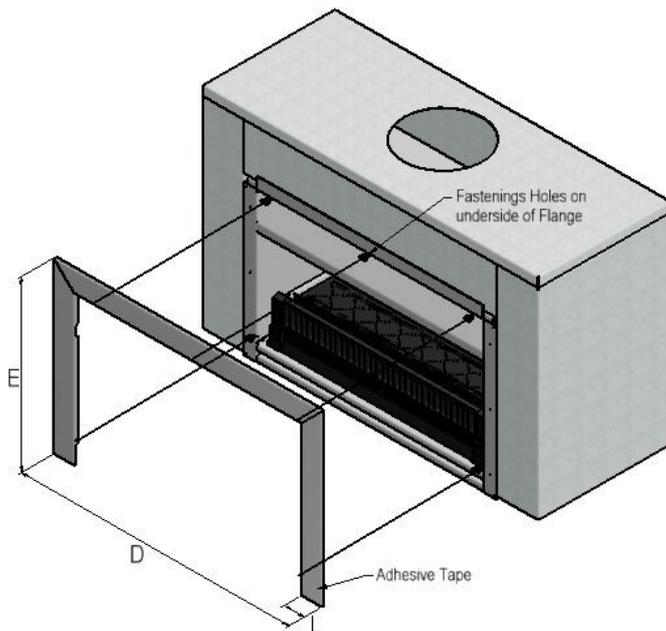
- Each Coal randomly positioned with the Torn (roughest) Face Outward **Ensure Coal positioning does not directly block the 3 Flame Pilot .**
- The placement of the Coals & Logs may vary to make an even flame pattern.
- Logs and twigs may be scattered to achieve best visual effect.
- Fit Burner grate by sliding R & L side metal pins on grate, into holes located on burner side plates, as shown below.

Model	Number of Coals per		Number of Rows		Total Coals
	Bottom	Top	Bottom	Top	Total
SG / EG 700	6	5	2	2	22
SG / EG 780	8	6	2	2	28
SG / EG 900	10	9	2	2	38
SG / EG 1100	11	10	2	2	42
SG / EG 1250	16	14	2	2	60

FASCIA KIT (Black or Stainless Steel)

Locate the three self-tapping screws provided into the under-side of the top ledge of the firebox
 Remove the backing tape from the adhesive Velcro pads at the bottom of each fascia side
 Offer the fascia into position locating the three screws into their associated slots - tighten screws
 Apply firm pressure to the bottom edges to bond the Velcro tape
 The fascia may be removed at any time by loosening the screws and parting the Velcro.

Please refer to additional sheet for Burner Ratings and Frame-out details.



Note:
 Fascia is fitted at the end of the installation process and may be after the wall and surroundings have been completed.

OPERATION OF YOUR WARMINGTON GAS CONVECTION FIRE (SG ONLY)

Your Fire must be Installed and Tested by a suitably qualified Gasfitter prior to use.

To light:

- Open the front cover by pulling in outwards.
- Push in the ignition control switch and hold in the 'PILOT' position for 5-10 seconds until you can hear the gas come through the pipe – making sure the ignition switch is pressed in firmly.
- To strike the igniter, turn anti clockwise to the * **STAR** position (with the ignition switch still firmly pressed in) until you hear the pilot ignite with a 'click'. Repeat this process 2 or 3 times if necessary.
- Once the pilot flame is lit, hold this position for 3-5 seconds, then gently let the ignition switch out, and set the flame control to high. It may take a few seconds for the burner to light all the way across.
- Once the flame is established, adjust to the desired setting and close the cover.

To shut down:

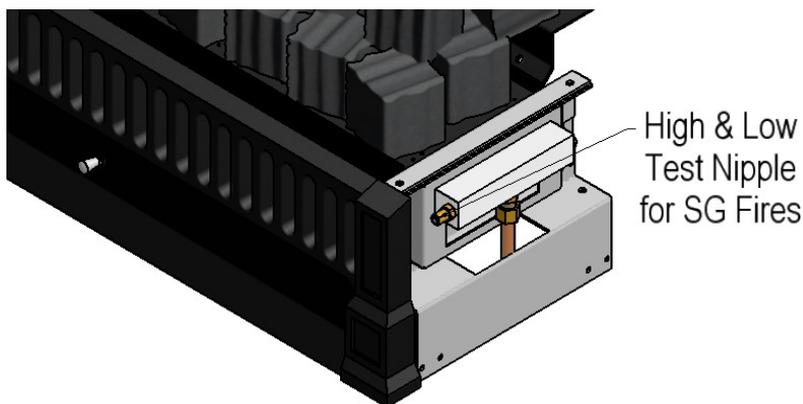
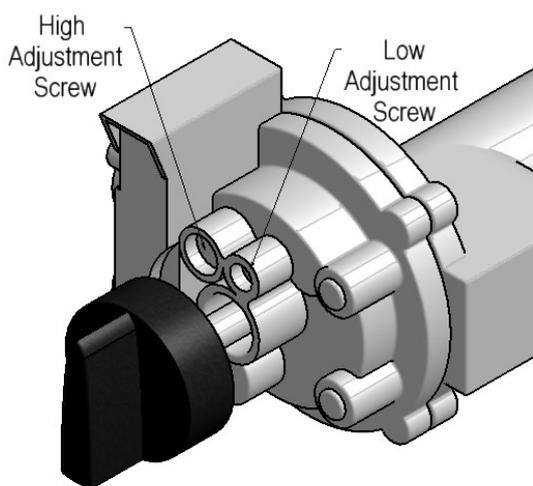
- Open the cover by pulling it outwards.
- Turn the control ignition switch to 'PILOT' and the flame bed will extinguish.
- Pilot light may be left on and the pilot flame will still burn.
- To fully extinguish, turn to the 'OFF' position before closing the cover.



ADJUSTMENT OF HI / LOW PRESSURE - SG ONLY Adjusted by Gasfitter ONLY

Note: Control Valves are factory set but may require adjustment onsite

- Turn Appliance off & remove front plastic cover on Igniter. Pull cover to slide off.
- Unscrew test nipple on the burner manifold & fit the test gauge securely - see diagram.
- **To set the High:** Light the burner & turn to high - then adjust the high screw to the desired pressure - see spec's.
- **To set the Low:** Light the burner & turn to low - then adjust the low screw to the desired pressure - see spec's.
- Extinguish Appliance, remove test equipment and secure test nipple.
- Check valve & burner for correct operation & check fire for gas leaks.



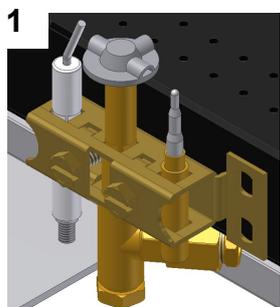
Note : Location of the Test Nipple - may vary from Model to Model

ADJUSTMENT OF THE PILOT - 3 FLAME for BOTH SG & EG Adjusted by Gasfitter ONLY

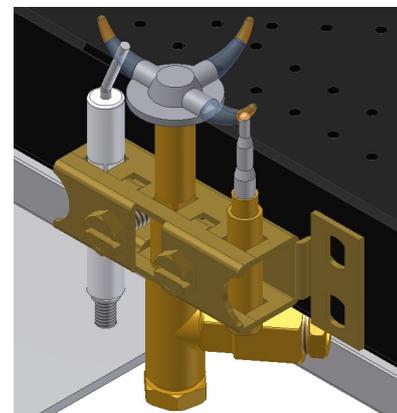
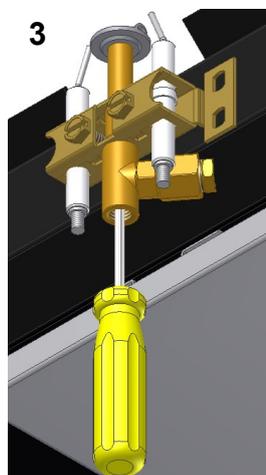
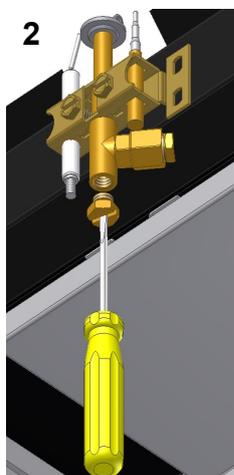
Note: When the base screw is removed, gas will leak from the out let, ensure that the pilot is not adjusted or the screw is removed when the fire is burning.

- Adjustment of Pilot - 3 Flame: Unscrew base screw as shown in Diagram 2.
- Insert a screwdriver as shown in Diagram 3 and adjust the adjustment screw up inside the 3 Flame Pilot to adjust the flame height.
- The flame must always be passing over the Electrodes &/or File Tube on either side.
- Replace the Base screw and check for leaks.

Note: to Gasfitters
 The 3 flame pilot may need adjustment after a period of running time on set up, as the increase in heat in the fire will induce a higher draft and may pull in flame away from the file tube causing the fire to shut down.



3 Flame Pilot in assembled state



Correct operation of 3 Flame Pilot

POINTS OF SAFETY - To the Customer /Home-Owner

Your Warmington Gas decorative fire operates on the principle of dual radiant and convected heat. Therefore it is important to observe the following precautions associated with any heating appliance or open fire.

- Do not cover or restrict the fireplace upper or lower vents in any way as this may result in a build-up of hazardous gases within the room.
- The fire is not intended for the drying of clothing, bedding etc.
- Avoid installing this appliance in high traffic areas, strong draughts or near drapes or furniture.
- The use of an approved fireguard is recommended for the protection of young children.
- Avoid using aerosols when the appliance is operating.
- Avoid anyone leaning against or lying directly in front of the fire while operating.
- Do not place anything objects into or against the gas fire at any stage.
- The fire may release a small amount of smoke on its first start up which may take 1or 2 hours to dissipate . This is part of the curing process so ensure there is adequate ventilation within the room.
- Always use a registered Gas Fitter or Electrician for installing and maintenance work
- Always use certified gas cylinders that have been tested and are safe to use.
- Never modify your gas appliance or its settings from those specified by the manufacturer.

APPLIANCE SAFETY Any gas fire appliance shall comply with the safety requirements of the current standards listed under "Related documents" in this specification.

ELECTRONIC CONTROL SYSTEMS Any gas fire appliance fitted with manual or programmable electronic control systems shall be tested and/or approved by a recognised person or authority.

SEISMIC RESTRAINTS All gas fires used for domestic and commercial purposes shall be firmly secured (unless defined as portable or mobile) to prevent dislodgement from their point of fixture or installation during seismic activity.

WHAT DO YOU DO IF YOU SMELL GAS

- Open windows and doors
- Do not light any gas appliance
- Do not use any electrical appliance or switches
- Do not use the telephone in your home
- Leave the building; shut off the domestic gas supply valve (beside your meter)
- Call your gas supplier/gasfitter or the Fire Service for further advice.

MAINTENANCE: All burner settings, coal placement and vermiculite is to be checked and set in accordance with this specification by the Service person/Gasfitter

Lighting your gas fire using electronic or remote ignition systems may vary as per manufacturer instructions

Warmington Industries recommend annual servicing of your gas fire by an approved Warmington dealer Gasfitter.

External surfaces should be dusted with a damp, lint-free cloth when the fire is cold.

Warmington Industries provide 12 months warranty from the date of purchase, for domestic or commercial installations

The Warranty Covers:

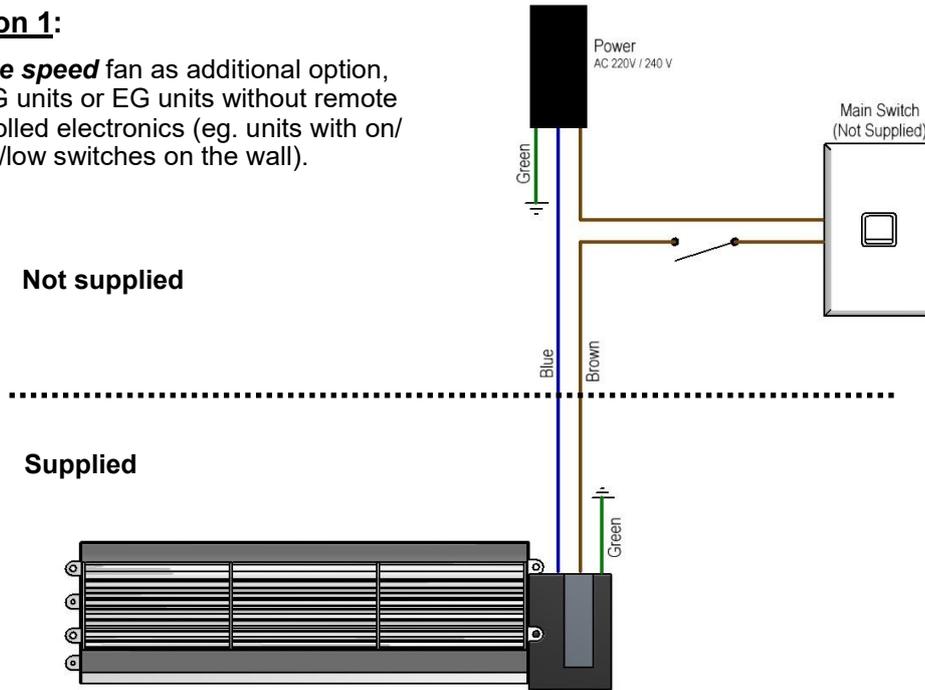
- Replacement Parts and Labour for Gas Control Components due to Manufacturing Defects Only.
- Repair or Replacement of the Burner or Firebox Components due to Manufacturing Defects Only.
- Warranty cover will be considered void if the product is subject to incorrect installation, failure to operate the appliance in accordance with the supplied instructions and specifications or is subject to damage or misuse beyond the expected conditions of normal use.
- All installations and servicing must be carried out by and approved Warmington dealer or Gasfitter.

Option 1:

Single speed fan as additional option, on SG units or EG units without remote controlled electronics (eg. units with on/off, hi/low switches on the wall).

Not supplied

Supplied

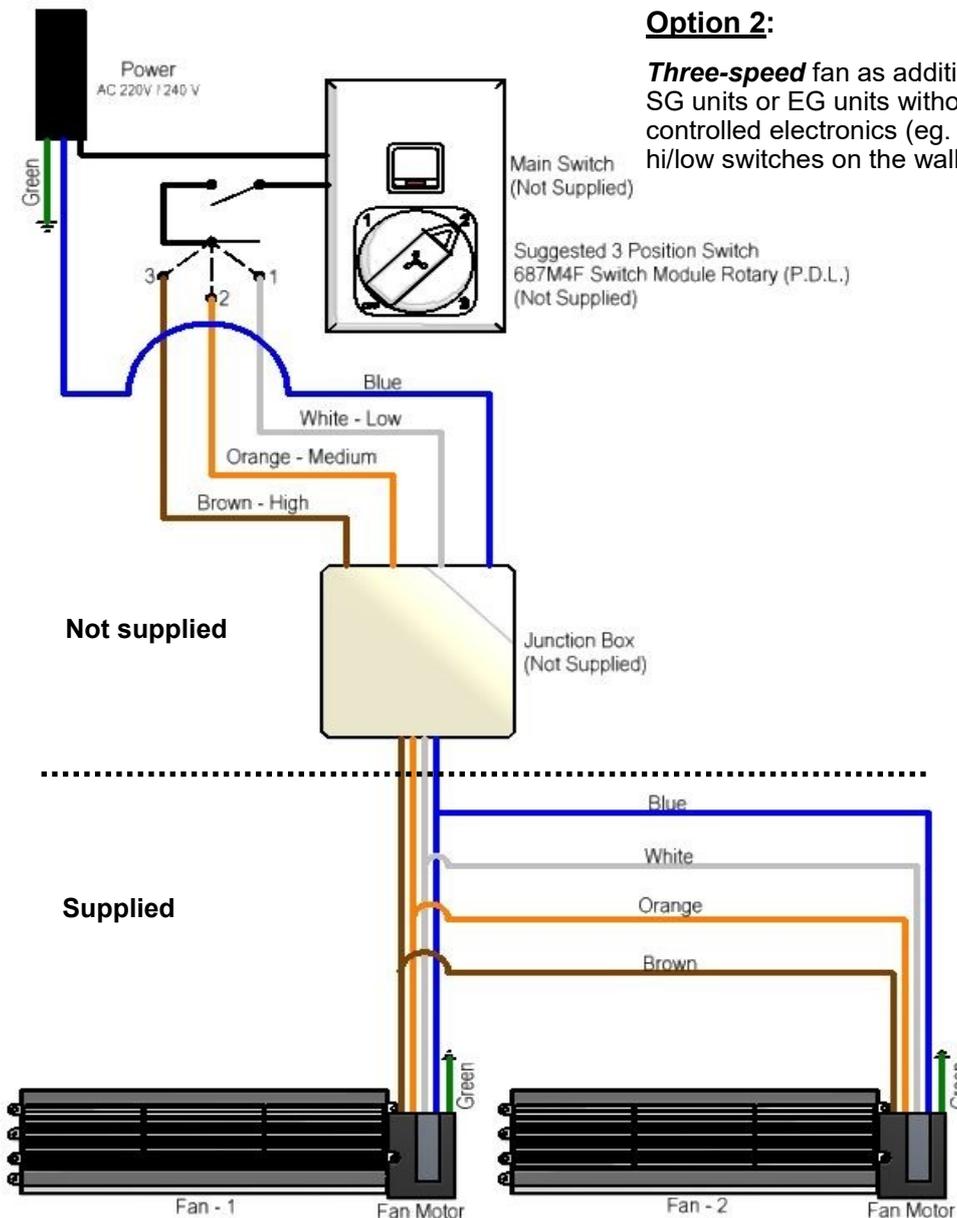


Option 2:

Three-speed fan as additional option, on SG units or EG units without remote controlled electronics (eg. units with on/off, hi/low switches on the wall).

Not supplied

Supplied



ON-OFF ELECTRONIC CONTROL VALVE (SIT 840)

Note: Any alterations to pressure are to be carried out by a certified gasfitter

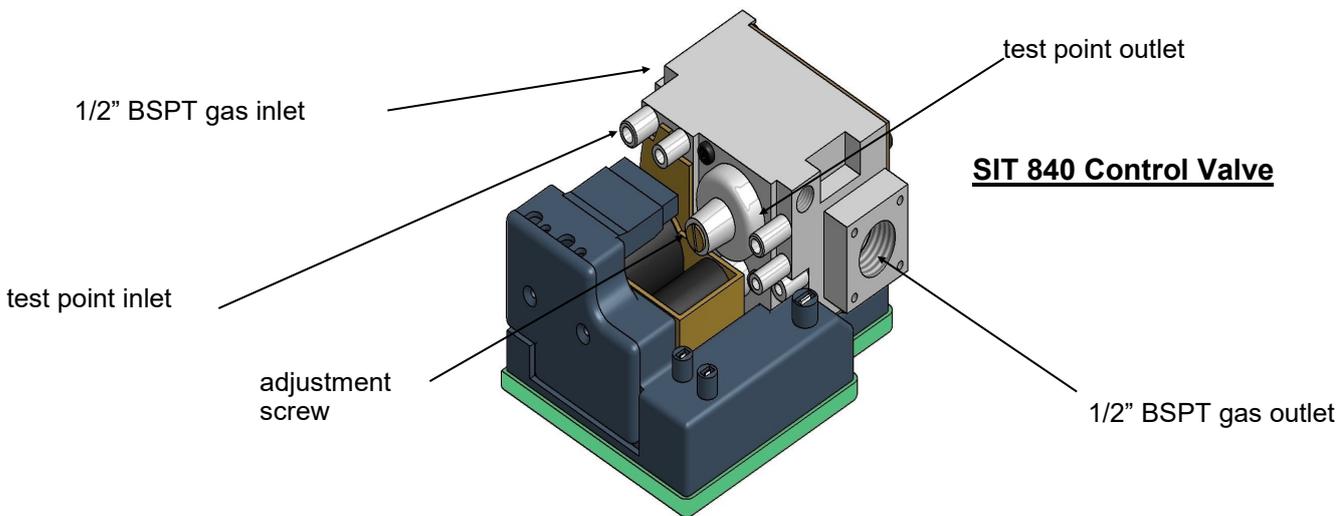
- Light appliance and check the pressure to the hi kPa value in the table for maximum output.
- If adjustments are necessary, remove the dust cap on the control valve. The pressure adjustment screw is on the front side of the gas control valve and is factory set.

WARNING: Ensure that the dust cap is replaced after adjustment.

Pressure Setting:

- Turn the burner on with the switch and wait for full ignition. Using a standard screwdriver, screw the adjusting screw clockwise to increase the outlet pressure, or screw counter clockwise to decrease the pressure to the desired settings.
- Set the pressure to the hi kPa value in the table for maximum output.

Modulator Harness Connections

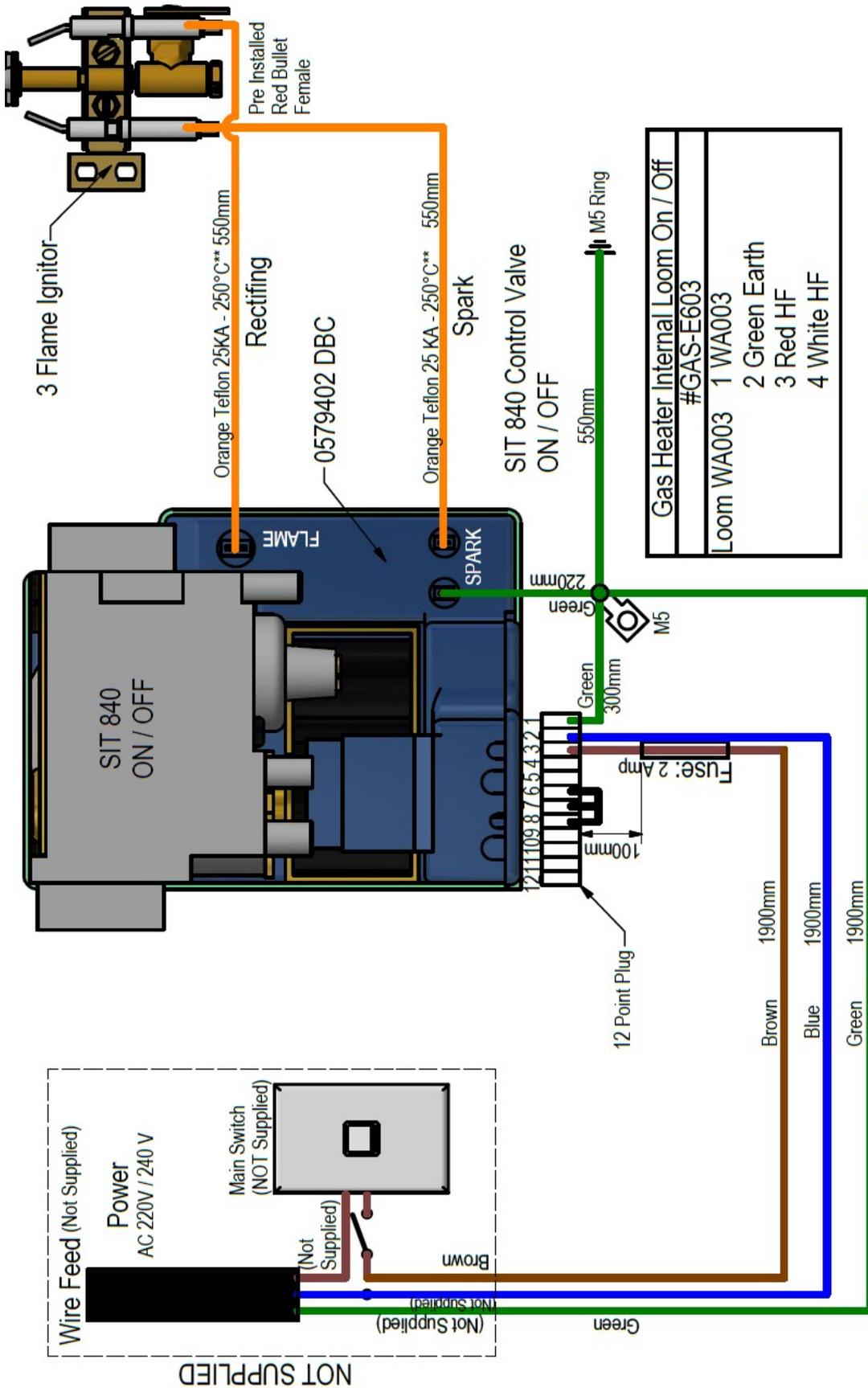


- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Turn the appliance on and off a few times to check ignition.
- When satisfied that the appliance is working correctly, fit the front panel assembly back to the gas burner.

Note : Ensure you peel the protective plastic coating from any stainless steel components if fitted.

- All burner aerations are factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact.
- It may take approximately 2 hours of operation for the coals/logs or river rocks to achieve their full flame pattern and glow.
- During the initial burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until these dissipate.

ON/OFF SWITCH (SIT 840) - WIRING DIAGRAM



NOTES:
1. ** = Supplied by Warmington

ON-OFF-HIGH-LOW ELECTRONIC CONTROL VALVE

Note: Any alterations to pressure is to be carried out by a Certified Gas Fitter.

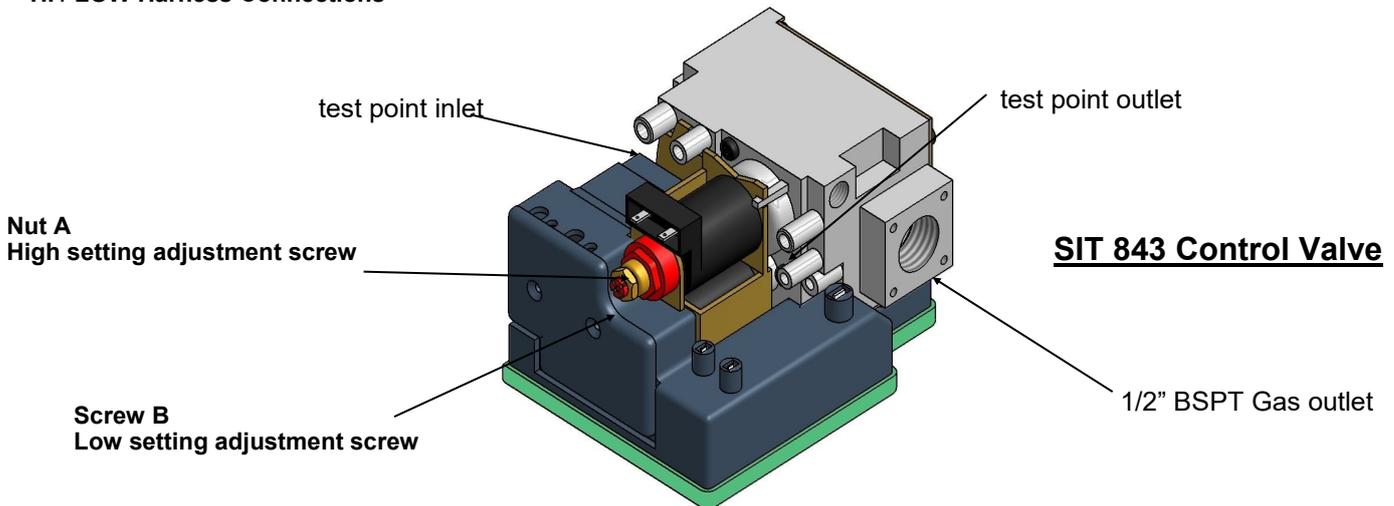
- Light appliance and check the pressure to the high and low kPa values in the gas specification table.
- If adjustments are necessary, remove the dust cap on the control valve. The pressure adjustment screw is on the front side of the gas control valve and is factory set.

WARNING: Ensure that the dust cap is replaced after adjustment.

Pressure Setting:

- Turn the burner on with the switch and wait for full ignition.
- If adjustments are necessary, remove the cap . The Pressure Adjustment Screw and Nut are on the Front Side of the Gas Control Valve (shown in diagram **below**) and are **Factory** set.
- **High Pressure Setting:** Set the Burner to High with the switch. Screw in **Nut A** to Increase the Outlet Pressure then screw Nut A out to Decrease the Pressure to the desired settings . Use 10mm spanner.
- **Low Pressure Setting:** Set the Burner to Low with the switch - See Wiring Diagram) and, keep Nut A stationary . Use a screwdriver to screw in **Screw B** to Increase the Pressure and Screw it Out to Decrease the Pressure . Carefully replace the Modulator Plastic Cap.
- Set the pressure to the hi kPa value in the table for maximum output. The burner will operate any pressure between the hi and the low pressures.

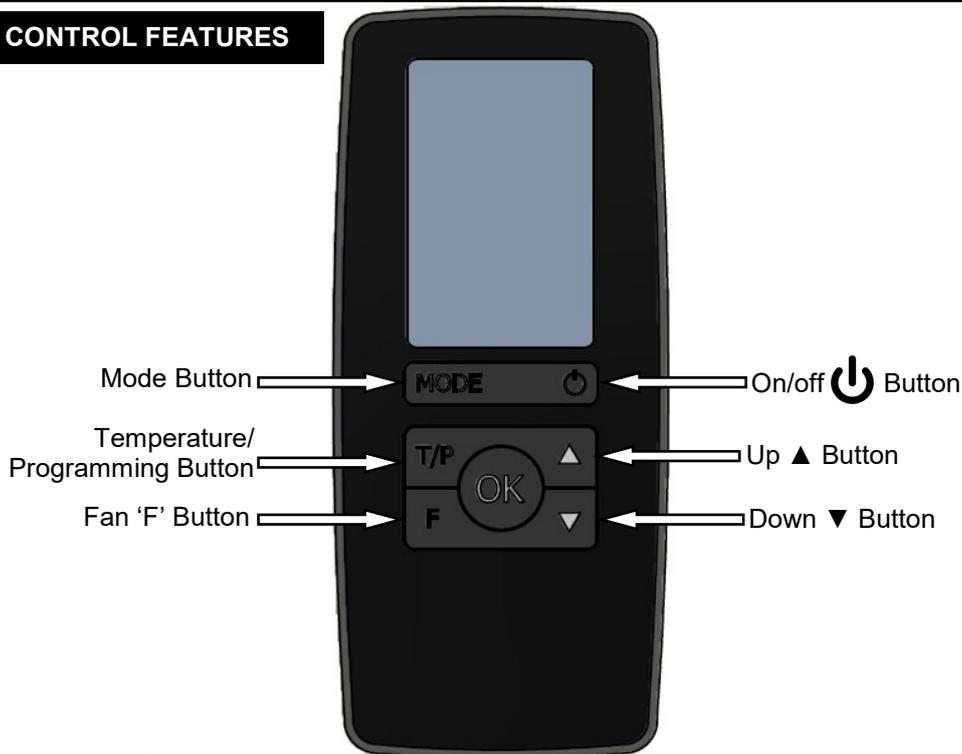
HI / LOW Harness Connections



- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Ensure power is off & reconnect modulator harness connection in the main harness.
- Turn the appliance on and off a few times to check ignition.
- When satisfied that the appliance is working correctly, fit the front panel assembly back to the gas burner.
- Note: Ensure you peel the protective plastic coating from any stainless steel components if fitted.
- All burner Aerations are factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your local service contact.
- It may take approximately 2 hours of operation for the coals/logs or river rocks to achieve their full flame pattern and glow.
- During the initial burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until fumes dissipate.

OPERATION OF YOUR REMOTE CONTROLLED EG GAS BURNER (SIT 845 valve)

REMOTE CONTROL FEATURES



Press and release the  button to turn the remote on and off.

SETTING THE DAY OF THE WEEK AND TIME

With the remote off, press and hold the 'T/P' button for 2 seconds or longer to initiate programming the time. The Time, Hour setting and AM/PM will flash.

Setting the hour function: Press and release the ▲ or ▼ button to increase or decrease the hour setting by 1 hour. Please ensure that AM/PM is set correctly. Press 'OK' to accept. The minute digits will begin to flash.

Setting the minute function: Press and release, the ▲ or ▼ button to increase or decrease the minute setting by 1 minute. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the minute setting by 1 minute every 0.5 seconds. Press 'OK' to accept. The days of the week will begin to flash.

Setting the day of the week function: Press and release the ▲ or ▼ button to change the day of the week to the following or previous day. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. Press 'OK' to complete setting. The time and day of the week is now set.

USING THE VARIOUS MODES

While the remote is switched on, pressing and releasing the MODE button will cycle between all available modes. These are:

Manual Mode→Auto Mode→Flame Mode→Manual Mode

Manual mode

Manual mode does not require that the time and day of the week to be set. Press the ▲ or ▼ button to increase or decrease the temperature as desired. The Fan speed can be adjusted at any time by pressing the 'F' button. Pressing and releasing the 'F' button will cycle through fan speeds of 1, 2, 3 Off and back to 1.

Automatic mode

The automatic mode allows the temperature to be regulated according to a programmed level and time. At any time, the temperature may be adjusted up or down. However, whenever the remote changes to a new time period, the temperature will be set automatically according to that period's setting. The Fan speed can be adjusted at any time by pressing the 'F' button. Pressing and releasing the 'F' button will cycle through fan speeds of 1, 2, 3 Off and back to 1. Note, that the fan speed will not change automatically, but remain at the last selected speed.

Flame Mode

In Flame mode the flame level is selected as required, and remains at the selected level. A change in the temperature will not change the flame level. Press the ▲ or ▼ button to increase or decrease the Flame level desired. The Fan speed can be adjusted at any time by pressing the 'F' button. Pressing and releasing the 'F' button will cycle through fan speeds of 1, 2, 3, Off and back to 1.

Programming for Auto Mode

Each day of the week can be programmed individually for 4 periods P1, P2, P3 and P4, making a total of 28 programmed periods. Alternatively, a weekday program can be set, so the same program is used for Monday-Friday. Similarly, a weekend program can be set for Saturday-Sunday. The entire week can also have the same program. Alternatively, a weekday or weekend program can be set with individual programs for the remaining days.

The suggested period settings for each day/s are:

Period 1 - morning

Period 2 - daytime

Period 3 - evening

Period 4 - night-time

Entering programming mode:

With the remote off, Press and hold the 'T/P' button for 2 seconds or longer then release, followed by another press and release of the 'T/P' button. If successful, the LCD will display 'Pd' at the top, and the word PROG at the bottom. The time at which the remote is currently set, and MO will flash.

Select which day/s to program. You must choose which day/s of the week you wish to program. Press and release the ▲ or ▼ button to change the day of the week to the following or previous day. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the day of the week by 1 day every 0.5 seconds. The order that you can scroll through the days is as follows:

MO→TU→WE→TH→FR→ 'MO TU WE TH FR' → SA → SU → 'SU SA' → 'MO TU WE TH FR SA SU'

To accept the selected day/s of the week press 'OK'.

First period's start time. The display will indicate 'P1' on the top. The Hour and AM/PM settings will now flash.

To set the P1 starting time:

Press and release the ▲ or ▼ button to increase or decrease the hour setting. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the hour setting by 1 hour every 0.5 seconds. Please ensure that AM/PM is set correctly. Press 'OK' to accept. The Minute setting will now flash.

Adjust the minute setting:

Press and release the ▲ or ▼ buttons to increase or decrease the minute setting. Press 'OK' to accept. Setting the temperature. The Set Temperature setting will now flash.

Adjust the desired set temperature:

Press and release the ▲ or ▼ button to increase or decrease the temperature setting by 1 °C. Press and hold the ▲ or ▼ button for 2 seconds or longer to increase or decrease the temperature setting by 1°C every 0.5 seconds. Press 'OK' to accept. Period 1 is now set for the day/s of the week that you have chosen. The LCD will display 'P2' to indicate that Period 2 can now be set for the same day/s of the week. Repeat the programming process for periods 2, 3 and 4. After program 4 is set, press 'OK' and the program for the selected day/s will be set. Repeat the programming process for any other periods/days that are required.

Restore factory default settings

With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, ▼. If done correctly, the icon 'rE' will be indicated on the LCD.

Teaching RF remote ID code to control unit

CAUTION: The remote has already been programmed with a unique code. Do not attempt to teach the RF Remote ID code unless instructed by the manufacturer. With the remote off, press the following sequence of buttons: 'F', 'T/P', 'T/P' again, ▲. The LCD display will show 'LC' (Learn Code) for 2 seconds then return to the normal OFF state display. During this time a special code will be transmitted by the RF Remote to the Control Unit, causing the Control Unit to learn its ID.

APP OPERATION

The app can be used both on iOS and Android devices they can be downloaded here:

Apple Store: <https://apps.apple.com/jm/app/intelligy-thermostat-mkii/id1327577138>

Google Play Store: <https://play.google.com/store/apps/details?id=com.millec.intelligythermostatmkii>

For instructions on how to push the appliance to your Wi-Fi, please go to the Warmington website and find details located under the 'Downloads' tab for your fireplace model.

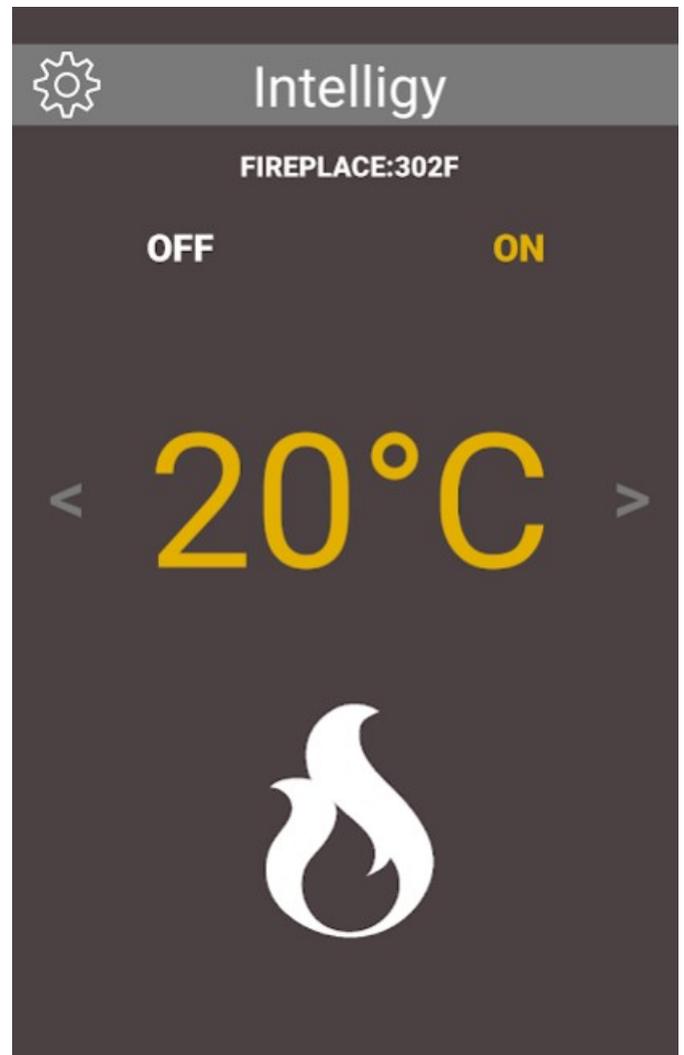
The app has both manual control and automatic controls.

In manual control you can adjust the flame height by touching the < and > symbols next to the flame icon.

In automatic control you can adjust the desired room temperature by touching the < and > symbols next to the temperature.

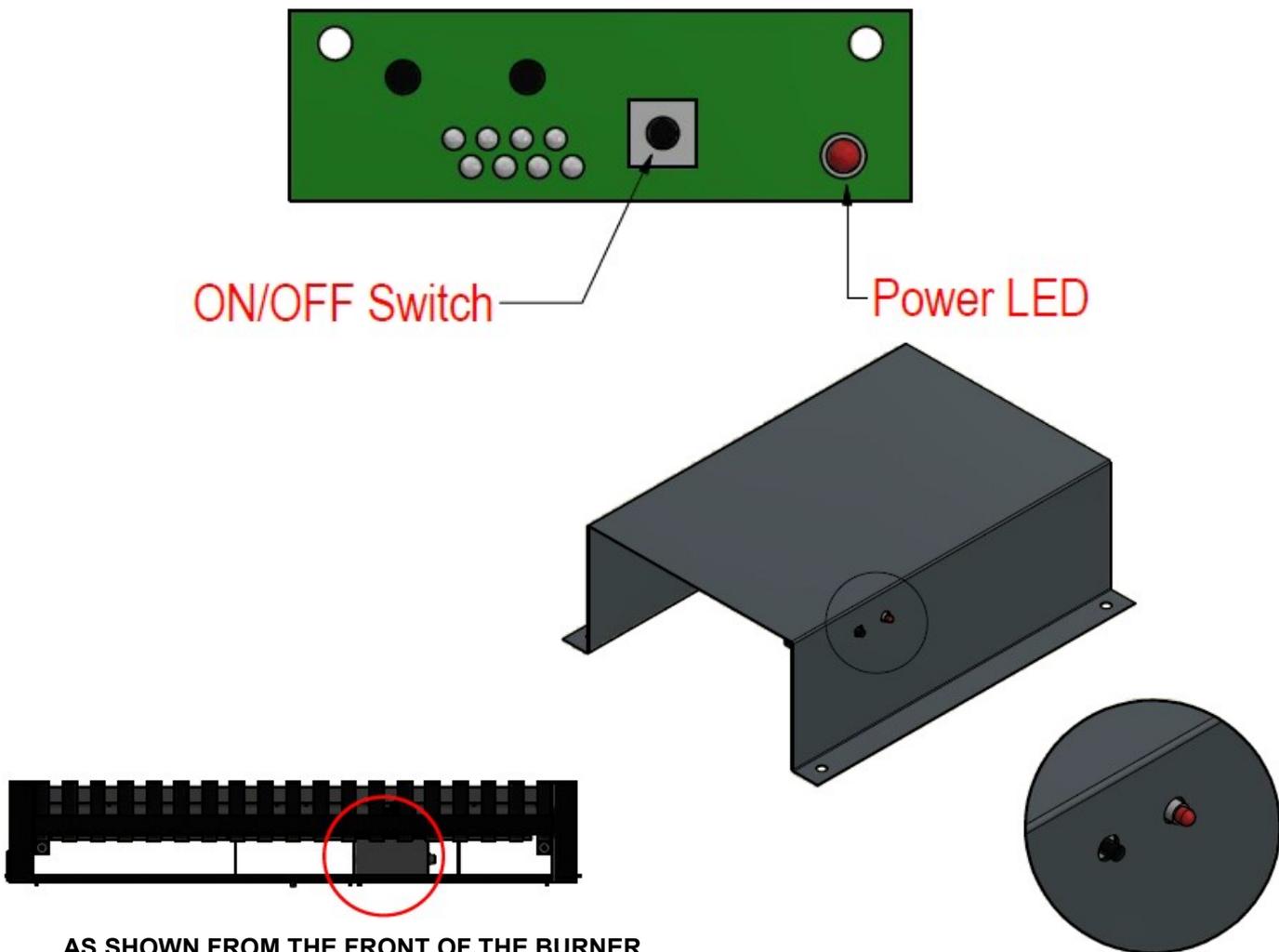


Manual



Automatic

MANUAL ON/OFF SWITCH



AS SHOWN FROM THE FRONT OF THE BURNER

The switch is located behind the grate on the control valve heat shield as shown above.

Press and release the power button. This will start the electronic spark and the power LED will be on permanently. The pilot will ignite first and once this is on, it will ignite the main burner. Pressing and releasing the power button again will switch off the appliance.

When the appliance is turned on, the gas fire will be set to medium flame and fan setting.

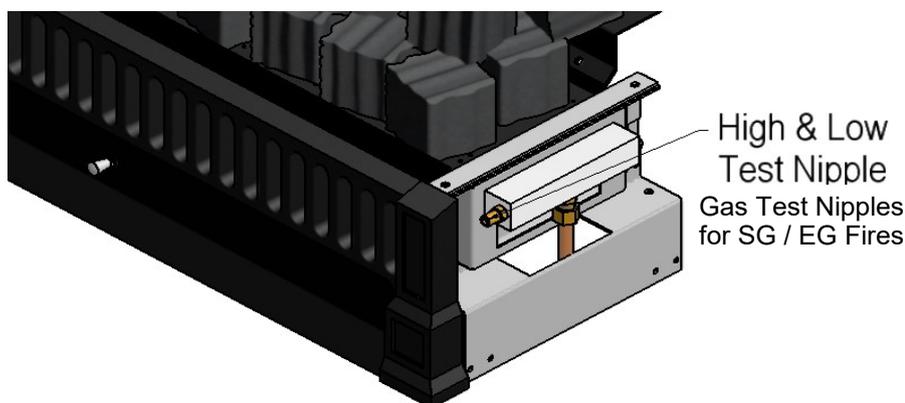
If the gas fails to light, the appliance will go into lock out mode. To start the appliance again turn appliance off and wait 3 minutes before turning it on.

Please note that the power button is for use when the remote controller is lost or damaged and can't be used. This controller can not adjust flame height or fan speed, hence is supplied for emergency use, if remote and phone App is not able to be used.

PROCEDURE FOR THE TEST AND COMMISSIONING OF YOUR DECORATIVE FIRE

Ensure Gas Supply and the Power Supply (caution 240V) to the Unit

- Refer to Data Plate on this specification for settings. The Data plate is attached to the under carriage of the Burner.
- Remove front grate.
- Loosen the Jet test point and attach manometer (digital is preferred). The test point is on the right hand side of the gas burner, as shown below:



Note : Location of the Test Nipple - may vary from Model to Model

- Light appliance, adjust to high flame setting and check pressure, adjust to low flame and check pressure.

NOTE: Any alterations to pressure is to be carried out by a Certified Gasfitter

- If adjustments are necessary, remove the cap. The Pressure Adjustment screw and nut are on the front side of the Gas Control Valve (shown in diagram **B** in this specification) and are **factory** set.

High Pressure Setting: Set the modulator to maximum condition. Screw in **Nut A** to increase the outlet pressure then screw nut A out to decrease the pressure to the desired settings. Use 10mm spanner.

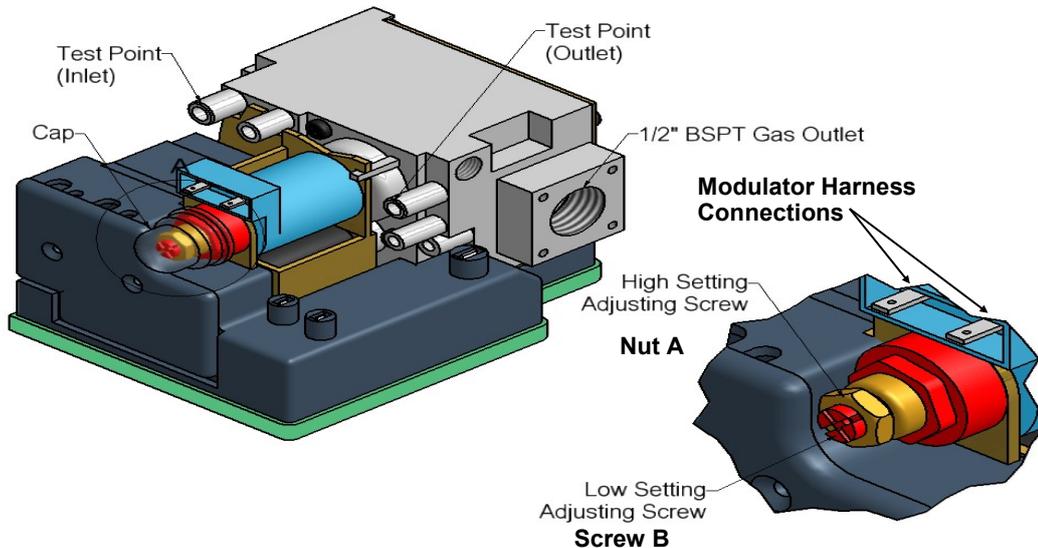
Low Pressure Setting: Turn off the power to the modulator (by disconnecting the modulator harness connection at the valve - see wiring) and keep nut A stationary. Use a screwdriver to screw in **Screw B** to increase the pressure and screw it out to decrease the pressure. Carefully replace the modulator plastic cap.

WARNING: To ensure the correct operation of the modulator it is necessary that the plastic cap is returned to its original location.

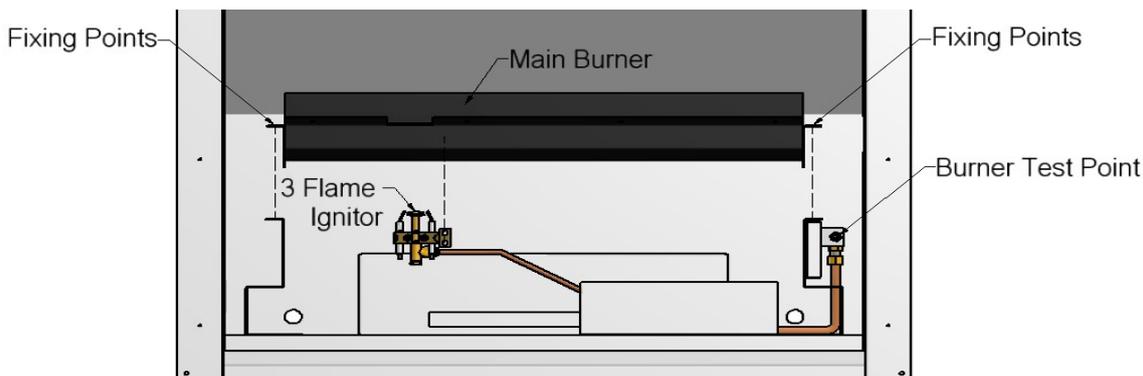
DIAGRAM B (SHOWING CONTROL VALVE WITH TEST POINTS AND ADJUSTING SCREW).

Modulator Harness Connections

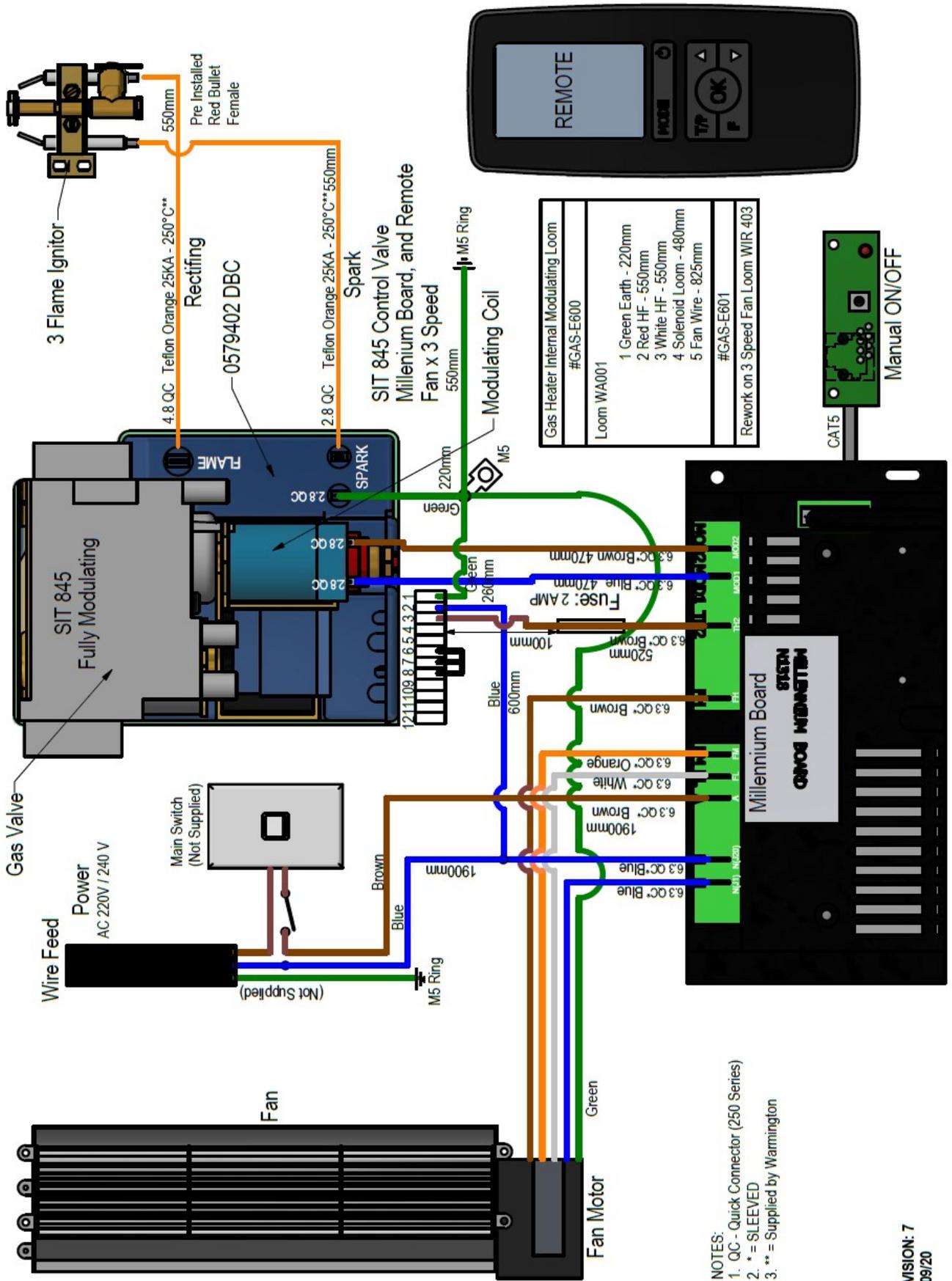
DIAGRAM B



- After checking the pressure, turn the unit off, remove manometer from the test point and tighten the test point screw. Ensure to check for gas leaks.
- Ensure Power is off & reconnect Modulator Harness Connection in the main harness. See **Diagram B** above.
- Turn the appliance on and off a few times to check ignition.
- When you are satisfied that the appliance is working correctly, fit the front panel assembly back to the gas burner.
- **NOTE:** Ensure you peel the Protective Plastic Coating from any stainless steel components if fitted.
- All Burner aerations are Factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to troubleshooting before contacting your Local Service Contact.
- It may take approximately 2 hours of operation for the coals/logs or river rocks to achieve their full flame pattern and glow.
- During the Initial Burn period, some smoke and smell may be experienced. Because of this, run the appliance on the high position in a well ventilated room until the fumes dissipate .



FULLY MODULATING (SIT 845) - WIRING DIAGRAM



NOTES:
 1. QC - Quick Connector (250 Series)
 2. * = SLEEVED
 3. ** = Supplied by Warmington

REVISION: 7
 03/09/20

GENERAL NOTES

NOTES:

- These installation and operating instructions should be kept in a safe place. Should you require another copy, download from the **Warmington** website www.warmington.co.nz.
- Warranty - for full details on product warranties, contact your local Authorised Warmington Retailer.
- Correct installation, operation and maintenance must be maintained to comply with the **Warmington** Warranty.
- The appliance and flue system must be installed in accordance with relevant standards and the appropriate building codes.
- This appliance must be serviced annually and any service operation must be carried out by a qualified service person.

WARNINGS:

- **WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED A BREACH OF NZ STANDARDS.**
- **WARNING: DO NOT USE OR STORE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILST IN OPERATION.**
- **WARNING; DO NOT PLACE FLAMMABLE MATERIALS ON OR AGAINST THIS APPLIANCE.**
- **CAUTION:** THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.
- **CAUTION:** ALL SERVICING MUST BE CARRIED OUT BY AN AUTHORISED SERVICE TECHNICIAN.
- **CAUTION:** MAKE SURE THE USE OF CORRECT FUEL TYPE WITH THIS APPLIANCE.

NOTE: Keep a copy of these instructions for operating and maintenance guidelines.



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